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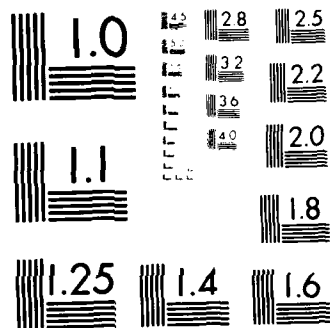
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
OCEANA VIRGINIA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC NOV 83

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INVENTORY

SIMOS, Oceana, Va.

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# SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

STATION: #13769 Oceana, VA

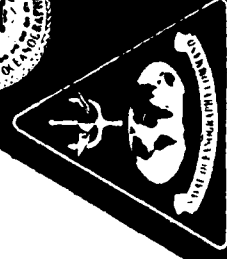
PERIOD: January 1952-December 1982

JOB NO. 72006

DATE November 1983

PREPARED BY  
NAVAL OCEANOGRAPHY  
COMMAND DETACHMENT,  
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ASHEVILLE, N.C. 28801

PREPARED FOR  
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NAVAL OCEANOGRAPHY  
COMMAND  
NSTL MS 39529



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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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4. TITLE (and Subtitle) Summary of Meteorological Observations, Surface (SMOS) Oceana, VA		5. TYPE OF REPORT & PERIOD COVERED Reference Report 1973-1982
7. AUTHOR(s) NA		6. PERFORMING ORG. REPORT NUMBER
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18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Climatology, surface wind, temperature, precipitation, ceiling, visibility, relative humidity, station pressure, extreme temperatures, sea level pressure, daily temperature, weather conditions, monthly climatology, coastal region, snow depth, and cloud cover		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure		

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STATION NO ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV (FT)	CALL SIGN	WMO NUMBER
13769	Oceana, Virginia	36°48' N	76°01' W	22	KNTU	

## STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			STATION (FT)	TYPE BAROMETER	
1.	Weather Service Office	Navy	1945	1954	36°50' N	76°02' W	24	Mercurial	24
2.	" " (Ops Bldg)	"	1954	1968	"	"	27	"	"
3.	" " "	"	1968	1976	36°49' N	"	"	"	"
4.	" " "	"	1967	1970	36°48' N	76°01' W	29	Aneroid	"
4a.	" " "	"	1971	1977	"	"	30	"	"
4b.	" " "	"	1978		"	"	32	"	"

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed 1945	Atop control tower	Selsyn	Triple	95'	1. Barograph (Marine)
2.	Installed 1954	Roof of operations building	UMQ-5	RD-108	42'	2. Psychrometer (ML-450A/UM)
3.	1960	1100 ft N of Ops Bldg	"	"	13'	3. Semi-auto met stn (GMQ-29)
						4. Ceiling light (ML-121)
						5. Cloud height set (AN/GMQ-130)
						6. Transmissometer (GMQ-10)
						7. Weather vision (GMQ-27)
						8. RVR indicator (OA/7900/GMQ-10)
						9. Thermoscreen
						10. Radar facsimile (RO-415/GMH-6V)
						11. Rotating ceilometer recorder (RBC)

## SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

This update includes the period of record (POR) 1973 through 1982, with all available data through 1982 for extreme values.

This summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of "0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Oceanography Command Detachment (NOCD), Asheville, N.C. welcomes your comment and criticisms.

## PART A

## WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 5-hour periods.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blank space - This item, if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of Observations with Obstructions to Vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

## WEATHER CONDITIONS

STAT:CN

STAT. ON NAME

YEARS

MONTH

[illegible]

## WEATHER CONDITIONS

# STAY

STATION NAME

YEARS

MONTH

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
Jan			11.		1.		12.	1.0	1.0	.0		73.0	1
Feb			11.	.0	1.0		12.	2.0	14.			88.0	71
Mar			11.	.0	1.		13.	77.0	1.0	.0		41.0	71
Apr			10.		1.		13.	1.0	70.			67.2	71
May			7.0		1.0		9.7	1.0	74.0	.0		75.8	71
Jun			6.7		2.0		11.	1.0	50.0			60.1	71
Jul			10.		2.0		12.0	1.0	17.7	.0		73.0	71
Aug			1.0		1.	.7	11.0	1.0	17.0	1.0		81.3	71
Sep													
Oct													
Nov													
Dec													
TOTALS			1.0	.0	1.0	.0	12.0	1.0	71.0	.0		71.0	71

## WEATHER CONDITIONS

STAVES

STATION NAME

3

MONTHLY

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
			2.0		1.0		5.0	1.0	1.0	.4	.6	37.3	11
			.0		.0		12.0	3.0	16.0	.0	.4	32.0	232
		.4	.0	.0	.0		10.0	3.0	2.0	1.0	.4	40.2	100
			.0		.1		11.0	17.4	3.0	.7	.4	46.0	200
1			.0		3.0		12.4	12.0	23.0	1.1	.7	37.6	302
2		.4	.0		.0		11.7	17.1	32.0	.4	.7	34.4	300
3		.4	.0		.1		16.0	19.0	32.0	.4	.7	37.1	300
4			3.0		3.0		10.0	1.0	1.7	.4	.4	32.3	302
TOTALS		.1	.7	.0	.0		11.0	17.0	1.0	.1	.6	37.4	321



# WEATHER CONDITIONS

STATION NAME: STATION 1 YEARS: 1960 MONTH: 1

STATION: 1

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
1	01	0	1	0	1	0	1	1	1	0	0	0	1
1	02	0	1	0	1	0	1	1	1	0	0	0	1
1	03	0	1	0	1	0	1	1	1	0	0	0	1
1	04	0	1	0	1	0	1	1	1	0	0	0	1
1	05	0	1	0	1	0	1	1	1	0	0	0	1
1	06	0	1	0	1	0	1	1	1	0	0	0	1
1	07	0	1	0	1	0	1	1	1	0	0	0	1
1	08	0	1	0	1	0	1	1	1	0	0	0	1
1	09	0	1	0	1	0	1	1	1	0	0	0	1
1	10	0	1	0	1	0	1	1	1	0	0	0	1
1	11	0	1	0	1	0	1	1	1	0	0	0	1
1	12	0	1	0	1	0	1	1	1	0	0	0	1
1	13	0	1	0	1	0	1	1	1	0	0	0	1
1	14	0	1	0	1	0	1	1	1	0	0	0	1
1	15	0	1	0	1	0	1	1	1	0	0	0	1
1	16	0	1	0	1	0	1	1	1	0	0	0	1
1	17	0	1	0	1	0	1	1	1	0	0	0	1
1	18	0	1	0	1	0	1	1	1	0	0	0	1
1	19	0	1	0	1	0	1	1	1	0	0	0	1
1	20	0	1	0	1	0	1	1	1	0	0	0	1
1	21	0	1	0	1	0	1	1	1	0	0	0	1
1	22	0	1	0	1	0	1	1	1	0	0	0	1
1	23	0	1	0	1	0	1	1	1	0	0	0	1
1	24	0	1	0	1	0	1	1	1	0	0	0	1
TOTALS		0	1	0	1	0	1	1	1	0	0	0	1

220

[illegible]



## WEATHER CONDITIONS

STATION	STATION NAME	YEARS	MONTH										
MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
			3						4				
									4				
			1						5				
			4						3				
			3						4				
			2						1				
			7						6				
TOTALS			3						1				







## WEATHER CONDITIONS

[illegible]



## WEATHER CONDITIONS

STATION

STATION NAME

YEARS

MONTH

[illegible]

## WEATHER CONDITIONS

STATION

STATION NAME

YEARS

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[illegible]



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# THE EFFECT OF WIND DIRECTION ON THE GROWTH OF WIND DIRECTION

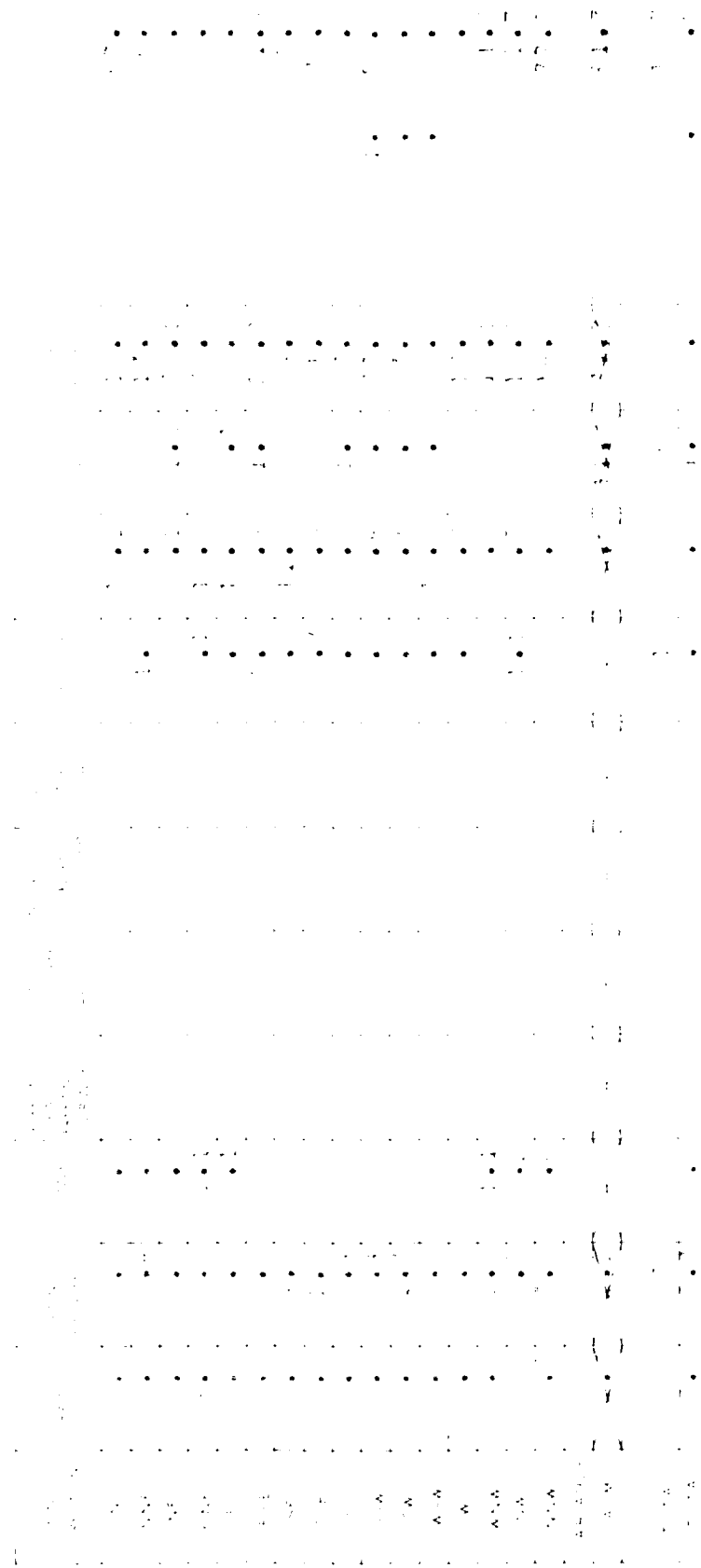
TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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STATION		DATE		TIME		WIND		TEMP		HUMID		PRESS		SEA		SKY		VIS		REMARKS	
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1	2	3	4	5	6	7	8	9	10	11	12	13	14								

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS



100% NUMBER OF OBSERVATIONS

SECRET

TOTAL NUMBER OF CHIEFS OF POLICE: 11.



TOTAL NUMBER OF CHANGES: 1

NAVWORLD.ASERVCOM

THE NATIONAL BUREAU OF INVESTIGATION

*[The page contains faint, illegible markings and artifacts.]*

TOTAL NUMBER OF OBSERVATIONS

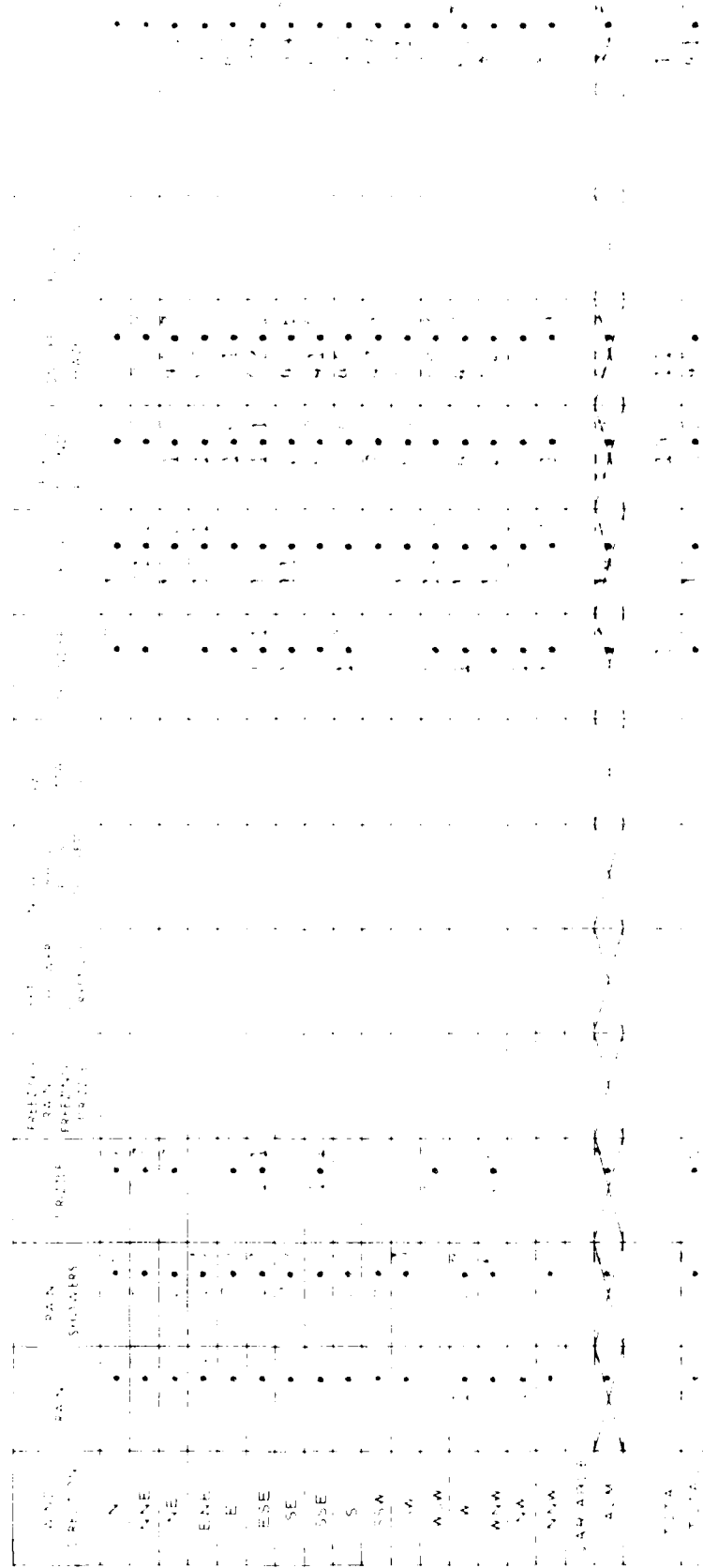
# RESPONSE FREQUENCY OF WIND DIRECTION IN WEATHER CONDITIONS

THE  
LIBRARY OF THE  
CONGRESS

PHOTODUPLICATION SERVICE  
SERIALS ACQUISITION  
510 MAHAL STREET  
WASHINGTON, D.C. 20540  
U.S.A.

TOTAL NUMBER OF OBSERVATIONS:

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS WEATHER CONDITIONS



TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITION

STATION  
DATE  
TIME

WIND DIRECTION	WIND SPEED	WEATHER CONDITION	PERCENTAGE FREQUENCY
N	0-5	Clear	10
N	6-10	Clear	5
N	11-15	Clear	5
N	16-20	Clear	5
N	21-25	Clear	5
N	26-30	Clear	5
N	31-35	Clear	5
N	36-40	Clear	5
N	41-45	Clear	5
N	46-50	Clear	5
N	51-55	Clear	5
N	56-60	Clear	5
N	61-65	Clear	5
N	66-70	Clear	5
N	71-75	Clear	5
N	76-80	Clear	5
N	81-85	Clear	5
N	86-90	Clear	5
N	91-95	Clear	5
N	96-100	Clear	5
N	0-5	Partly Cloudy	10
N	6-10	Partly Cloudy	5
N	11-15	Partly Cloudy	5
N	16-20	Partly Cloudy	5
N	21-25	Partly Cloudy	5
N	26-30	Partly Cloudy	5
N	31-35	Partly Cloudy	5
N	36-40	Partly Cloudy	5
N	41-45	Partly Cloudy	5
N	46-50	Partly Cloudy	5
N	51-55	Partly Cloudy	5
N	56-60	Partly Cloudy	5
N	61-65	Partly Cloudy	5
N	66-70	Partly Cloudy	5
N	71-75	Partly Cloudy	5
N	76-80	Partly Cloudy	5
N	81-85	Partly Cloudy	5
N	86-90	Partly Cloudy	5
N	91-95	Partly Cloudy	5
N	96-100	Partly Cloudy	5
N	0-5	Overcast	10
N	6-10	Overcast	5
N	11-15	Overcast	5
N	16-20	Overcast	5
N	21-25	Overcast	5
N	26-30	Overcast	5
N	31-35	Overcast	5
N	36-40	Overcast	5
N	41-45	Overcast	5
N	46-50	Overcast	5
N	51-55	Overcast	5
N	56-60	Overcast	5
N	61-65	Overcast	5
N	66-70	Overcast	5
N	71-75	Overcast	5
N	76-80	Overcast	5
N	81-85	Overcast	5
N	86-90	Overcast	5
N	91-95	Overcast	5
N	96-100	Overcast	5
N	0-5	Thunderstorm	10
N	6-10	Thunderstorm	5
N	11-15	Thunderstorm	5
N	16-20	Thunderstorm	5
N	21-25	Thunderstorm	5
N	26-30	Thunderstorm	5
N	31-35	Thunderstorm	5
N	36-40	Thunderstorm	5
N	41-45	Thunderstorm	5
N	46-50	Thunderstorm	5
N	51-55	Thunderstorm	5
N	56-60	Thunderstorm	5
N	61-65	Thunderstorm	5
N	66-70	Thunderstorm	5
N	71-75	Thunderstorm	5
N	76-80	Thunderstorm	5
N	81-85	Thunderstorm	5
N	86-90	Thunderstorm	5
N	91-95	Thunderstorm	5
N	96-100	Thunderstorm	5
N	0-5	Other	10
N	6-10	Other	5
N	11-15	Other	5
N	16-20	Other	5
N	21-25	Other	5
N	26-30	Other	5
N	31-35	Other	5
N	36-40	Other	5
N	41-45	Other	5
N	46-50	Other	5
N	51-55	Other	5
N	56-60	Other	5
N	61-65	Other	5
N	66-70	Other	5
N	71-75	Other	5
N	76-80	Other	5
N	81-85	Other	5
N	86-90	Other	5
N	91-95	Other	5
N	96-100	Other	5

TOTAL NUMBER OF OBSERVATIONS

NAVY AIR CRAFT IN LAND REGION

DATE	TIME	TYPE	STATUS	LOCATION	REMARKS
1	0100	NA	1	NA	NA
2	0200	NA	1	NA	NA
3	0300	NA	1	NA	NA
4	0400	NA	1	NA	NA
5	0500	NA	1	NA	NA
6	0600	NA	1	NA	NA
7	0700	NA	1	NA	NA
8	0800	NA	1	NA	NA
9	0900	NA	1	NA	NA
10	1000	NA	1	NA	NA
11	1100	NA	1	NA	NA
12	1200	NA	1	NA	NA
13	1300	NA	1	NA	NA
14	1400	NA	1	NA	NA
15	1500	NA	1	NA	NA
16	1600	NA	1	NA	NA
17	1700	NA	1	NA	NA
18	1800	NA	1	NA	NA
19	1900	NA	1	NA	NA
20	2000	NA	1	NA	NA
21	2100	NA	1	NA	NA
22	2200	NA	1	NA	NA
23	2300	NA	1	NA	NA
24	2400	NA	1	NA	NA
25	2500	NA	1	NA	NA
26	2600	NA	1	NA	NA
27	2700	NA	1	NA	NA
28	2800	NA	1	NA	NA
29	2900	NA	1	NA	NA
30	3000	NA	1	NA	NA
31	3100	NA	1	NA	NA
32	3200	NA	1	NA	NA
33	3300	NA	1	NA	NA
34	3400	NA	1	NA	NA
35	3500	NA	1	NA	NA
36	3600	NA	1	NA	NA
37	3700	NA	1	NA	NA
38	3800	NA	1	NA	NA
39	3900	NA	1	NA	NA
40	4000	NA	1	NA	NA
41	4100	NA	1	NA	NA
42	4200	NA	1	NA	NA
43	4300	NA	1	NA	NA
44	4400	NA	1	NA	NA
45	4500	NA	1	NA	NA
46	4600	NA	1	NA	NA
47	4700	NA	1	NA	NA
48	4800	NA	1	NA	NA
49	4900	NA	1	NA	NA
50	5000	NA	1	NA	NA
51	5100	NA	1	NA	NA
52	5200	NA	1	NA	NA
53	5300	NA	1	NA	NA
54	5400	NA	1	NA	NA
55	5500	NA	1	NA	NA
56	5600	NA	1	NA	NA
57	5700	NA	1	NA	NA
58	5800	NA	1	NA	NA
59	5900	NA	1	NA	NA
60	6000	NA	1	NA	NA
61	6100	NA	1	NA	NA
62	6200	NA	1	NA	NA
63	6300	NA	1	NA	NA
64	6400	NA	1	NA	NA
65	6500	NA	1	NA	NA
66	6600	NA	1	NA	NA
67	6700	NA	1	NA	NA
68	6800	NA	1	NA	NA
69	6900	NA	1	NA	NA
70	7000	NA	1	NA	NA
71	7100	NA	1	NA	NA
72	7200	NA	1	NA	NA
73	7300	NA	1	NA	NA
74	7400	NA	1	NA	NA
75	7500	NA	1	NA	NA
76	7600	NA	1	NA	NA
77	7700	NA	1	NA	NA
78	7800	NA	1	NA	NA
79	7900	NA	1	NA	NA
80	8000	NA	1	NA	NA
81	8100	NA	1	NA	NA
82	8200	NA	1	NA	NA
83	8300	NA	1	NA	NA
84	8400	NA	1	NA	NA
85	8500	NA	1	NA	NA
86	8600	NA	1	NA	NA
87	8700	NA	1	NA	NA
88	8800	NA	1	NA	NA
89	8900	NA	1	NA	NA
90	9000	NA	1	NA	NA
91	9100	NA	1	NA	NA
92	9200	NA	1	NA	NA
93	9300	NA	1	NA	NA
94	9400	NA	1	NA	NA
95	9500	NA	1	NA	NA
96	9600	NA	1	NA	NA
97	9700	NA	1	NA	NA
98	9800	NA	1	NA	NA
99	9900	NA	1	NA	NA
100	10000	NA	1	NA	NA

TOTAL NUMBER OF OPERATIONS

## 4

TOTAL NUMBER OF OBJECTS: 100

[illegible]



## PART B      PRECIPITATION, SNOWFALL & SNOW DEPTH

B

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION	DERIVED FROM DAILY OBSERVATIONS
SNOWFALL*	DERIVED FROM DAILY OBSERVATIONS
SNOW DEPTH	DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited value and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations	From beginning of record thru 1945	Snow depth at 0000 LST
	Jan 46-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT
U. S. Navy and Weather Bureau Stations	From beginning of record thru Jun 52	Snow depth at 0030 GCT
	Jul 52-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT

\* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956, and after Dec 1979.

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF

(FROM DAILY OBSERVATIONS)

STATION

STATION NAME

YEARS

	AMOUNTS (INCHES)												PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE			TRACE			0.1			0.2					MEAN	GREATEST	LEAST
	PRECIP	SNOW-M	SNOW- DEPT	PRECIP	SNOW-M	SNOW- DEPT	PRECIP	SNOW-M	SNOW- DEPT	PRECIP	SNOW-M	SNOW- DEPT					
JAN	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
FEB	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MAR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
APR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MAY	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
JUN	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
JUL	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AUG	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SEP	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
OCT	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
NOV	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DEC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ANNUAL	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF

(FROM DAILY OBSERVATIONS)

STATION NAME

YEARS

	STATION NAME	YEARS	AMOUNTS (INCHES)										PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
			0.25	0.50	1.00	1.25	1.50	2.00	2.50	3.00	3.50	4.00			MEAN	GREATEST	LEAST
JAN																	
FEB																	
MAR																	
APR																	
MAY																	
JUN																	
JUL																	
AUG																	
SEP																	
OCT																	
NOV																	
DEC																	
ANNUAL																	

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
(FROM DAILY OBSERVATIONS)

STATION NAME

YEARS

	AMOUNTS (INCHES)												PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	0.00-0.25			0.25-0.50			0.50-1.00			1.00-2.00					MEAN	GREATEST	LEAST
	0.00-0.25	0.25-0.50	0.50-1.00	0.25-0.50	0.50-1.00	1.00-2.00	1.00-2.00	2.00-3.00	3.00-4.00	4.00-5.00	5.00-6.00	6.00-7.00					
JAN	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
FEB	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MAR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
APR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MAY	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
JUN	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
JUL	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AUG	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SEP	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
OCT	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
NOV	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DEC	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ANNUAL	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

## EXTREME VALUES

10

[illegible]



NAVY AIRCRAFT SERVICE DETACHMENT  
 ASHEVILLE NORTH CAROLINA

# EXTREME VALUES

FROM 1900 TO 1999

STATION NAME

YEARS

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1900	.	.	.	.	.	.	.	.	.	.	.	.	
1901	.	.	.	.	.	.	.	.	.	.	.	.	
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1911	.	.	.	.	.	.	.	.	.	.	.	.	
1912	.	.	.	.	.	.	.	.	.	.	.	.	
1913	.	.	.	.	.	.	.	.	.	.	.	.	
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1916	.	.	.	.	.	.	.	.	.	.	.	.	
1917	.	.	.	.	.	.	.	.	.	.	.	.	
1918	.	.	.	.	.	.	.	.	.	.	.	.	
1919	.	.	.	.	.	.	.	.	.	.	.	.	
1920	.	.	.	.	.	.	.	.	.	.	.	.	
1921	.	.	.	.	.	.	.	.	.	.	.	.	
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1997	.	.	.	.	.	.	.	.	.	.	.	.	
1998	.	.	.	.	.	.	.	.	.	.	.	.	
1999	.	.	.	.	.	.	.	.	.	.	.	.	

MEAN  
 MIN  
 MAX

STOS

# CAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

# EXTREME VALUES

PROBABILITY OF EXCEEDANCE

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1	.	.	.	.	.	.	.	.	.	.	.	.	.
2	.	.	.	.	.	.	.	.	.	.	.	.	.
3	.	.	.	.	.	.	.	.	.	.	.	.	.
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50	.	.	.	.	.	.	.	.	.	.	.	.	.
51	.	.	.	.	.	.	.	.	.	.	.	.	.
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## EXTREME VALUES

## STATION VARE

[illegible]

SOLMS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## EXTREME VALUES

RELATION NAME

YI ARS

[illegible]

## EXTREME VALUES

YFABS

SMOS

## EXTREME VALUES

YEARS

[illegible]

SOLIS

## EXTREME VALUES

[illegible]

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MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
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## EXTREME VALUES

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## EXTREME VALUES

Yf Afs

SOLOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHLEVILLE NORTH CAROLINA

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VI ABS

STATION NAME

[illegible]

SOLOS



NOVA WEATHER SERVICE DETACHMENT  
ASHEVILLE NORTH CAROLINA

EXTREME VALUES

STATION NAME		YEARS											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RECORD YEARS	1												
	2												
	3												
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# CAVAL WEATHER SERVICE DETACHMENT ASHTON, NORTH CAROLINA

# EXTREME VALUES

STATION NAME

YEARS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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2													
3													
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# EXTREME VALUES

STATION NAME: [Blank]

DATE: [Blank]

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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## DAILY EXTREME AMOUNTS

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1. PROFIT AND ACCOUNT LOSS STATEMENT

FIGURE 1. OTHER SURVEILLANCE INDICATES NO SIGNIFICANT

| STATION |        | SNOWFALL |        | GREATEST |        |
|---------|--------|----------|--------|----------|--------|
| DATE    | INCHES | DATE     | INCHES | DATE     | INCHES |
| 1       |        |          |        |          |        |
| 2       |        |          |        |          |        |
| 3       |        |          |        |          |        |
| 4       |        |          |        |          |        |
| 5       |        |          |        |          |        |
| 6       |        |          |        |          |        |
| 7       |        |          |        |          |        |
| 8       |        |          |        |          |        |
| 9       |        |          |        |          |        |
| 10      |        |          |        |          |        |
| 11      |        |          |        |          |        |
| 12      |        |          |        |          |        |
| 13      |        |          |        |          |        |
| 14      |        |          |        |          |        |
| 15      |        |          |        |          |        |
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| 30      |        |          |        |          |        |
| 31      |        |          |        |          |        |

[illegible]

\* ALSO ON EARLIER YEARS.

IF TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

## DAILY EXTREME AMOUNTS

Sixty

5.163619

| DAY     | PRECIPITATION<br>(GREATEST) |     |      | SUNSHINE<br>(GREATEST) |      |      |
|---------|-----------------------------|-----|------|------------------------|------|------|
|         | INCHES                      | MM. | DATE | FAHRS                  | MIN. | DATE |
| 1       | •                           |     |      |                        |      |      |
| 2       | •                           |     |      |                        |      |      |
| 3       | •                           |     |      |                        |      |      |
| 4       | •                           |     |      |                        |      |      |
| 5       | •                           |     |      |                        |      |      |
| 6       | •                           |     |      |                        |      |      |
| 7       | •                           |     |      |                        |      |      |
| 8       | •                           |     |      |                        |      |      |
| 9       | •                           |     |      |                        |      |      |
| 10      | •                           |     |      |                        |      |      |
| 11      | •                           |     |      |                        |      |      |
| 12      | •                           |     |      |                        |      |      |
| 13      | •                           |     |      |                        |      |      |
| 14      | •                           |     |      |                        |      |      |
| 15      | •                           |     |      |                        |      |      |
| 16      | •                           |     |      |                        |      |      |
| 17      | •                           |     |      |                        |      |      |
| 18      | •                           |     |      |                        |      |      |
| 19      | •                           |     |      |                        |      |      |
| 20      | •                           |     |      |                        |      |      |
| 21      | •                           |     |      |                        |      |      |
| 22      | •                           |     |      |                        |      |      |
| 23      | •                           |     |      |                        |      |      |
| 24      | •                           |     |      |                        |      |      |
| 25      | •                           |     |      |                        |      |      |
| 26      | •                           |     |      |                        |      |      |
| 27      | •                           |     |      |                        |      |      |
| 28      | •                           |     |      |                        |      |      |
| 29      | •                           |     |      |                        |      |      |
| 30      | •                           |     |      |                        |      |      |
| 31      | •                           |     |      |                        |      |      |
| Monthly |                             |     |      |                        |      |      |

· ALSO ON EARLIER YEARS

TRACE, AN AMOUNT TOO SMALL TO MEASURE.

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

# DAILY EXTREME AMOUNTS

100

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| DAY     | PRECIPITATION<br>GREATEST |    |      | SNOWFALL<br>GREATEST |    |      |
|---------|---------------------------|----|------|----------------------|----|------|
|         | INCHES                    | MM | DATE | INCHES               | MM | DATE |
| 1       | • 1                       |    |      |                      |    |      |
| 2       | •                         |    |      |                      |    |      |
| 3       | •                         |    |      |                      |    |      |
| 4       | •                         |    |      |                      |    |      |
| 5       | •                         |    |      |                      |    |      |
| 6       | •                         |    |      |                      |    |      |
| 7       | •                         |    |      |                      |    |      |
| 8       | • 1                       |    |      |                      |    |      |
| 9       | •                         |    |      |                      |    |      |
| 10      | •                         |    |      |                      |    |      |
| 11      | •                         |    |      |                      |    |      |
| 12      | •                         |    |      |                      |    |      |
| 13      | •                         |    |      |                      |    |      |
| 14      | •                         |    |      |                      |    |      |
| 15      | •                         |    |      |                      |    |      |
| 16      | •                         |    |      |                      |    |      |
| 17      | •                         |    |      |                      |    |      |
| 18      | •                         |    |      |                      |    |      |
| 19      | •                         |    |      |                      |    |      |
| 20      | •                         |    |      |                      |    |      |
| 21      | •                         |    |      |                      |    |      |
| 22      | •                         |    |      |                      |    |      |
| 23      | •                         |    |      |                      |    |      |
| 24      | •                         |    |      |                      |    |      |
| 25      | •                         |    |      |                      |    |      |
| 26      | •                         |    |      |                      |    |      |
| 27      | •                         |    |      |                      |    |      |
| 28      | •                         |    |      |                      |    |      |
| 29      | •                         |    |      |                      |    |      |
| 30      | •                         |    |      |                      |    |      |
| 31      | •                         |    |      |                      |    |      |
| Monthly | •                         |    |      |                      |    |      |

[illegible]

\* ALSO ON EARLIER YEARS

IF TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

## DAILY EXTREME AMOUNTS

1000

— 294 —

1991

| OBSERVATIONS<br>CONTINUED |      | SNOWFALL<br>GREATEST |    |      |
|---------------------------|------|----------------------|----|------|
| DATE                      | TIME | INCHES               | AM | DATE |
| 1                         | 1    |                      |    |      |
| 2                         | 2    |                      |    |      |
| 3                         | 3    |                      |    |      |
| 4                         | 4    |                      |    |      |
| 5                         | 5    |                      |    |      |
| 6                         | 6    |                      |    |      |
| 7                         | 7    |                      |    |      |
| 8                         | 8    |                      |    |      |
| 9                         | 9    |                      |    |      |
| 10                        | 10   |                      |    |      |
| 11                        | 11   |                      |    |      |
| 12                        | 12   |                      |    |      |
| 13                        | 13   |                      |    |      |
| 14                        | 14   |                      |    |      |
| 15                        | 15   |                      |    |      |
| 16                        | 16   |                      |    |      |
| 17                        | 17   |                      |    |      |
| 18                        | 18   |                      |    |      |
| 19                        | 19   |                      |    |      |
| 20                        | 20   |                      |    |      |
| 21                        | 21   |                      |    |      |
| 22                        | 22   |                      |    |      |
| 23                        | 23   |                      |    |      |
| 24                        | 24   |                      |    |      |
| 25                        | 25   |                      |    |      |
| 26                        | 26   |                      |    |      |
| 27                        | 27   |                      |    |      |
| 28                        | 28   |                      |    |      |
| 29                        | 29   |                      |    |      |
| 30                        | 30   |                      |    |      |
| 31                        | 31   |                      |    |      |

| DAY     | PRECIPITATION<br>GREATEST |    |      | WIND<br>GREATEST |    |      |
|---------|---------------------------|----|------|------------------|----|------|
|         | INCHES                    | MM | DATE | INCHES           | MM | DATE |
| 1       | •                         | 4  | 1891 |                  |    |      |
| 2       | •                         | •  | 1891 |                  |    |      |
| 3       | •                         | •  | 1891 |                  |    |      |
| 4       | 1.0                       | •  | 1891 |                  |    |      |
| 5       | 1.0                       | •  | 1891 |                  |    |      |
| 6       | 1.0                       | •  | 1891 |                  |    |      |
| 7       | 1.0                       | •  | 1891 |                  |    |      |
| 8       | •                         | •  | 1891 |                  |    |      |
| 9       | 1.0                       | •  | 1891 |                  |    |      |
| 10      | 1.0                       | •  | 1891 |                  |    |      |
| 11      | •                         | •  | 1891 |                  |    |      |
| 12      | •                         | •  | 1891 |                  |    |      |
| 13      | 1.0                       | •  | 1891 |                  |    |      |
| 14      | 1.0                       | •  | 1891 |                  |    |      |
| 15      | 1.0                       | •  | 1891 |                  |    |      |
| 16      | •                         | •  | 1891 |                  |    |      |
| 17      | •                         | •  | 1891 |                  |    |      |
| 18      | •                         | •  | 1891 |                  |    |      |
| 19      | •                         | •  | 1891 |                  |    |      |
| 20      | •                         | •  | 1891 |                  |    |      |
| 21      | •                         | •  | 1891 |                  |    |      |
| 22      | •                         | •  | 1891 |                  |    |      |
| 23      | •                         | •  | 1891 |                  |    |      |
| 24      | •                         | •  | 1891 |                  |    |      |
| 25      | •                         | •  | 1891 |                  |    |      |
| 26      | •                         | •  | 1891 |                  |    |      |
| 27      | •                         | •  | 1891 |                  |    |      |
| 28      | •                         | •  | 1891 |                  |    |      |
| 29      | •                         | •  | 1891 |                  |    |      |
| 30      | •                         | •  | 1891 |                  |    |      |
| 31      | •                         | •  | 1891 |                  |    |      |
| Monthly | •                         | •  | •    |                  |    |      |

· ALSO ON EARLIER YEARS

TRACE, AN AMOUNT TOO SMALL TO MEASURE

1. PLACE AN AMOUNT TOO SMALL TO MEASURE  
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD



[illegible]

| DISPOSITION |        |      | STANDARD |        |      |
|-------------|--------|------|----------|--------|------|
| CHARGE      |        |      | CRIMINAL |        |      |
| DAY         | INCHES | DATE | FOOTS    | INCHES | DATE |
| 1           | •      | •    |          |        |      |
| 2           | •      | •    |          |        |      |
| 3           | •      | •    |          |        |      |
| 4           | •      | •    |          |        |      |
| 5           | •      | •    |          |        |      |
| 6           | •      | •    |          |        |      |
| 7           | •      | •    |          |        |      |
| 8           | •      | •    |          |        |      |
| 9           | •      | •    |          |        |      |
| 10          | •      | •    |          |        |      |
| 11          | •      | •    |          |        |      |
| 12          | •      | •    |          |        |      |
| 13          | •      | •    |          |        |      |
| 14          | •      | •    |          |        |      |
| 15          | •      | •    |          |        |      |
| 16          | •      | •    |          |        |      |
| 17          | •      | •    |          |        |      |
| 18          | •      | •    |          |        |      |
| 19          | •      | •    |          |        |      |
| 20          | •      | •    |          |        |      |
| 21          | •      | •    |          |        |      |
| 22          | •      | •    |          |        |      |
| 23          | •      | •    |          |        |      |
| 24          | •      | •    |          |        |      |
| 25          | •      | •    |          |        |      |
| 26          | •      | •    |          |        |      |
| 27          | •      | •    |          |        |      |
| 28          | •      | •    |          |        |      |
| 29          | •      | •    |          |        |      |
| 30          | •      | •    |          |        |      |
| 31          | •      | •    |          |        |      |
| Monthly     | •      | •    |          |        |      |

• ALSO ON EARLIER YEARS

TRACE. AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

## PART C

## SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 2% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 90% observation reported is also provided.

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate Percentage Frequency Tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

- a. Three tables are prepared for all surface winds included, and for all years combined as follows:

- (1) Annual - all hours combined
- (2) By month - all hours combined
- (3) By month - by standard 3-hour groups

- b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

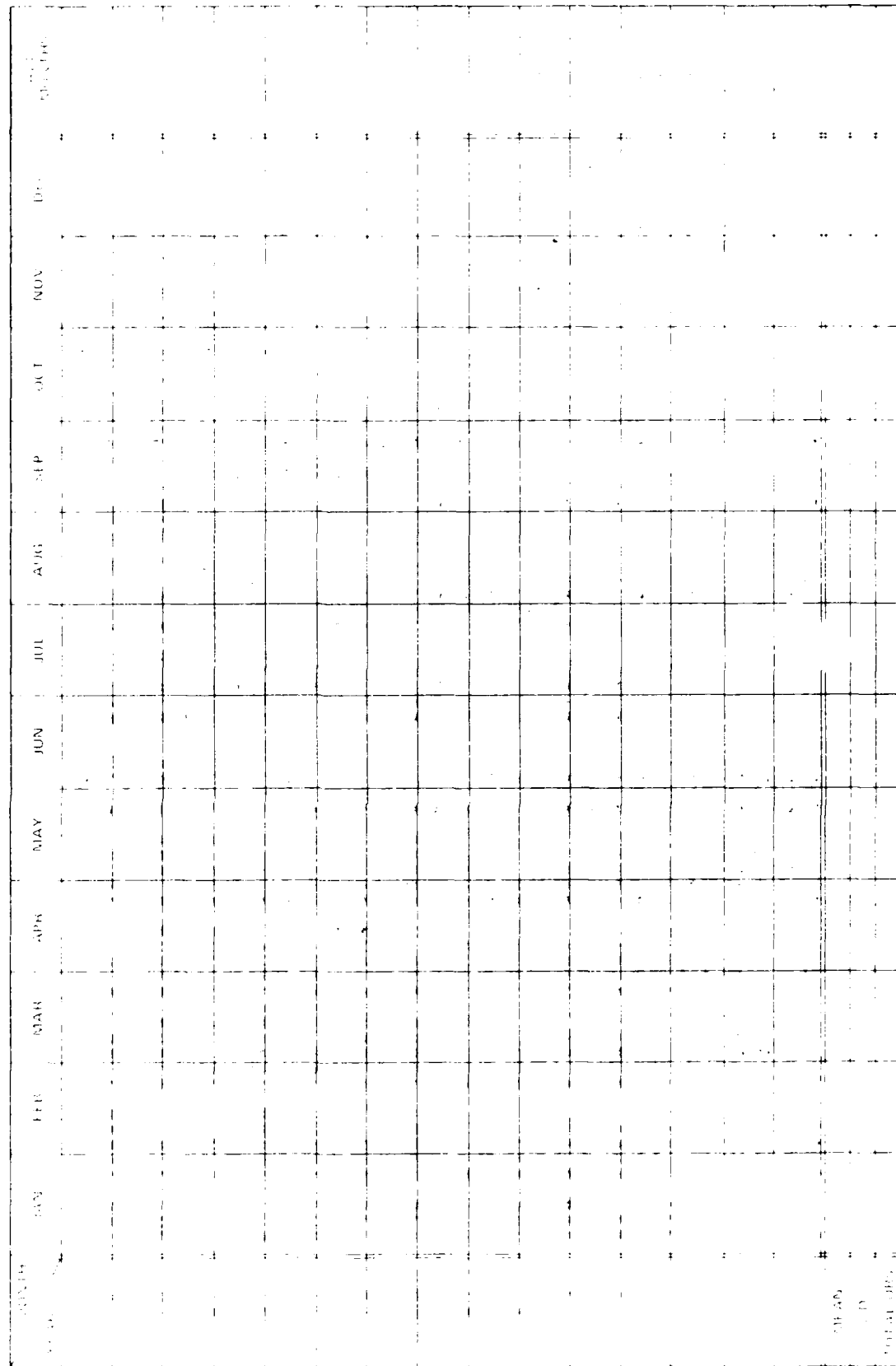
DEPARTMENT OF AGRICULTURE  
BUREAU OF ENTOMOLOGY

## EXTREME VALUES

[illegible]

22

(MPH 1949-1955)



515

## EXTREME VALUES

5457 1A

STATION NAME

(MPH 1949-1955)

[illegible]

SOIJS

## EXTREME VALUES

YI A635

(MPH 1949-1955)

[illegible]

200

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|------|---|-----------------------|
| N                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| NNE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| NE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| ENE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| E                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| ESE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| SE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| SSE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| S                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| SSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| SW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| WSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| W                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| WNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| NW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| NNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| VARBL                   | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |
| CALM                    | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

4

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME MONTH YEAR

HOURS 1-24

GLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NNE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| ENE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| E                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| ESE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SSE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| S                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| WSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| W                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| WNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| VARBL                   | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| CALM                    | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_ HOURS \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                  |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

STATION NAME

YEARS

WIND

CLASS

HOURS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
FROM HOURLY OBSERVATIONS

WENTP

HOURS LIST

CLASS

LOCATION

| SPEED<br>KNTS.<br>DIR | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-----------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                 |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                  |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: \_\_\_\_\_ MONTH: \_\_\_\_\_  
 CLASS: \_\_\_\_\_ YEARS: \_\_\_\_\_  
 CONDITION: \_\_\_\_\_ HOURS: \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                  | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS 1-24

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|-----------------------|
| N                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| NNE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| NE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| ENE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| E                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| ESE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| SE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| SSE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| S                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| SSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| SW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| WSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| W                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| WNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| NW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| NNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| VARBL                   | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |
| CALM                    | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ MONTH \_\_\_\_\_  
STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS (LST) \_\_\_\_\_  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| NNE                     | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| NE                      | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| ENE                     | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| E                       | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| ESE                     | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| SE                      | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| SSE                     | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| S                       | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| SSW                     | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| SW                      | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| WSW                     | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| W                       | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| WNW                     | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| NW                      | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| NNW                     | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS LST \_\_\_\_\_  
 CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NNE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| ENE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| E                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| ESE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SSE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| S                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| WSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| W                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| WNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| VARBL                   | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| CALM                    | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: \_\_\_\_\_ YEAR: \_\_\_\_\_ MONTH: \_\_\_\_\_

HOURS: 1 2 3 4 5 6 7 8 9 10 11 12

CLASS: \_\_\_\_\_

CONDITION: \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS LST \_\_\_\_\_  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥ 56 | ° | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|------|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_  
STATION \_\_\_\_\_ HOURS \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| NNE                     | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| NE                      | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| ENE                     | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| E                       | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| ESE                     | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| SE                      | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| SSE                     | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| S                       | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| SSW                     | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| SW                      | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| WSW                     | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| W                       | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| WNW                     | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| NW                      | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| NNW                     | •     | •     | •      | •       | •       |         |         |         |         |         |      | • | •                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|------|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS 1-5 T \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | ° | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

STATION NUMBER

DATE

TIME

CLOUDS

WINDS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
FROM HOURLY OBSERVATIONS

STATION NAME: \_\_\_\_\_ CLASS: \_\_\_\_\_ HOURS: \_\_\_\_\_

| SPEED<br>KNTS<br>D.R. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-----------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                 |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                  |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: \_\_\_\_\_ MONTH: \_\_\_\_\_  
 CLASS: \_\_\_\_\_ YEARS: \_\_\_\_\_  
 CONDITION: \_\_\_\_\_ HOURS: \_\_\_\_\_

| SPEED<br>(KTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                  |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS \_\_\_\_\_ CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS L S T \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

CLASS

HOURS LIST

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS U.S.T.

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VABBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ YEARS \_\_\_\_\_  
CONDITION \_\_\_\_\_ HOURS - LST \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS 1 2 3 4 5 6 7 8 9 10 11 12  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS TEST

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS 1-5

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: \_\_\_\_\_ MONTH: \_\_\_\_\_  
 STATION: \_\_\_\_\_ YEARS: \_\_\_\_\_  
 CLASS: \_\_\_\_\_ HOURS: \_\_\_\_\_  
 CONDITION: \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME  
MONTH  
YEARS  
HOURS

CLASS

CONDITION

| SPEED<br>KNTS.<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                  |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CA-M                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
FROM HOURLY OBSERVATIONS

STATION

STATION NAME

YEAR

MONTH

CLASS

HOURS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

CLARE

MONTH

CLASS

PERIOD

DATE

| SPEED<br>(KTS,<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-23 | 24-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VABL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

AD-A150 377

## SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)

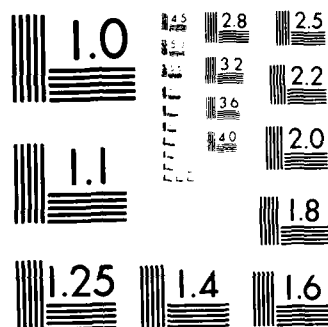
2/4

UNCLASSIFIED

F/G 4/2

NL

A 10x10 grid of squares. The top-left square (row 1, column 1) is missing, leaving a 9x10 grid of squares. The grid is composed of 90 squares in total.





NAVAL AIR FORCE  
 AIRPORT  
 ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

STATION NAME STATION YEARS MONTH HOURS (L S T)

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| NNE                     | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| NE                      | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| ENE                     | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| E                       | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| ESE                     | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| SE                      | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| SSE                     | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| S                       | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| SSW                     | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| SW                      | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| WSW                     | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| W                       | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| WNW                     | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| NW                      | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| NNW                     | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS (L S Y) \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS (L S Y) \_\_\_\_\_

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| NNE                     | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| NE                      | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| ENE                     | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| E                       | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| ESE                     | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| SE                      | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| SSE                     | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| S                       | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| SSW                     | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| SW                      | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| WSW                     | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| W                       | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| WNW                     | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| NW                      | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| NNW                     | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| VARBL                   | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| CALM                    | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
|                         | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS (LST) \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| NNE                     | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| NE                      | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| ENE                     | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| E                       | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| ESE                     | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| SE                      | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| SSE                     | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| S                       | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| SSW                     | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| SW                      | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| WSW                     | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| W                       | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| WNW                     | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| NW                      | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| NNW                     | •     | •     | •      | •       |         |         |         |         |         |         |      | • | •                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
|                         |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS (L S T)

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %   | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----|-----------------------|
| N                       | •     | •     | •      | •       |         |         |         |         |         |         |      | 7.1 | 7.7                   |
| NNE                     | •     | •     | •      | •       |         |         |         |         |         |         |      | •   | •                     |
| NE                      | •     | •     | •      | •       |         |         |         |         |         |         |      | •   | •                     |
| ENE                     | •     | •     | •      | •       |         |         |         |         |         |         |      | •   | •                     |
| E                       | •     | •     | •      | •       |         |         |         |         |         |         |      | •   | •                     |
| ESE                     | •     | •     | •      | •       |         |         |         |         |         |         |      | •   | •                     |
| SE                      | •     | •     | •      | •       |         |         |         |         |         |         |      | •   | •                     |
| SSE                     | •     | •     | •      | •       |         |         |         |         |         |         |      | •   | •                     |
| S                       | •     | •     | •      | •       |         |         |         |         |         |         |      | •   | •                     |
| SSW                     | •     | •     | •      | •       |         |         |         |         |         |         |      | •   | •                     |
| SW                      | •     | •     | •      | •       |         |         |         |         |         |         |      | •   | •                     |
| WSW                     | •     | •     | •      | •       |         |         |         |         |         |         |      | •   | •                     |
| W                       | •     | •     | •      | •       |         |         |         |         |         |         |      | •   | •                     |
| WNW                     | •     | •     | •      | •       |         |         |         |         |         |         |      | •   | •                     |
| NW                      | •     | •     | •      | •       |         |         |         |         |         |         |      | •   | •                     |
| NNW                     | •     | •     | •      | •       |         |         |         |         |         |         |      | •   | •                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |     |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |     |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS 11 5

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME |
|---------|--------------|
| 1       | STATION 1    |
| 2       | STATION 2    |
| 3       | STATION 3    |
| 4       | STATION 4    |
| 5       | STATION 5    |
| 6       | STATION 6    |
| 7       | STATION 7    |
| 8       | STATION 8    |
| 9       | STATION 9    |
| 10      | STATION 10   |
| 11      | STATION 11   |
| 12      | STATION 12   |
| 13      | STATION 13   |
| 14      | STATION 14   |
| 15      | STATION 15   |
| 16      | STATION 16   |
| 17      | STATION 17   |
| 18      | STATION 18   |
| 19      | STATION 19   |
| 20      | STATION 20   |
| 21      | STATION 21   |
| 22      | STATION 22   |
| 23      | STATION 23   |
| 24      | STATION 24   |
| 25      | STATION 25   |
| 26      | STATION 26   |
| 27      | STATION 27   |
| 28      | STATION 28   |
| 29      | STATION 29   |
| 30      | STATION 30   |
| 31      | STATION 31   |
| 32      | STATION 32   |
| 33      | STATION 33   |
| 34      | STATION 34   |
| 35      | STATION 35   |
| 36      | STATION 36   |
| 37      | STATION 37   |
| 38      | STATION 38   |
| 39      | STATION 39   |
| 40      | STATION 40   |
| 41      | STATION 41   |
| 42      | STATION 42   |
| 43      | STATION 43   |
| 44      | STATION 44   |
| 45      | STATION 45   |
| 46      | STATION 46   |
| 47      | STATION 47   |
| 48      | STATION 48   |
| 49      | STATION 49   |
| 50      | STATION 50   |
| 51      | STATION 51   |
| 52      | STATION 52   |
| 53      | STATION 53   |
| 54      | STATION 54   |
| 55      | STATION 55   |
| 56      | STATION 56   |
| 57      | STATION 57   |
| 58      | STATION 58   |
| 59      | STATION 59   |
| 60      | STATION 60   |
| 61      | STATION 61   |
| 62      | STATION 62   |
| 63      | STATION 63   |
| 64      | STATION 64   |
| 65      | STATION 65   |
| 66      | STATION 66   |
| 67      | STATION 67   |
| 68      | STATION 68   |
| 69      | STATION 69   |
| 70      | STATION 70   |
| 71      | STATION 71   |
| 72      | STATION 72   |
| 73      | STATION 73   |
| 74      | STATION 74   |
| 75      | STATION 75   |
| 76      | STATION 76   |
| 77      | STATION 77   |
| 78      | STATION 78   |
| 79      | STATION 79   |
| 80      | STATION 80   |
| 81      | STATION 81   |
| 82      | STATION 82   |
| 83      | STATION 83   |
| 84      | STATION 84   |
| 85      | STATION 85   |
| 86      | STATION 86   |
| 87      | STATION 87   |
| 88      | STATION 88   |
| 89      | STATION 89   |
| 90      | STATION 90   |
| 91      | STATION 91   |
| 92      | STATION 92   |
| 93      | STATION 93   |
| 94      | STATION 94   |
| 95      | STATION 95   |
| 96      | STATION 96   |
| 97      | STATION 97   |
| 98      | STATION 98   |
| 99      | STATION 99   |
| 100     | STATION 100  |

YEARS

**MONYH**

--- HOURS 1657

**CLASS**

### COMPOSITION

[illegible]

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ MONTH \_\_\_\_\_

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS (L S T) \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
|                         | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

HOURE (L S Y

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
|                         | 1.    | .     | 1.     | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS U.S.T.

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

CLASS

HOURS (LST)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| NNE                     | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| NE                      | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| ENE                     | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| E                       | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| ESE                     | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| SE                      | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| SSE                     | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| S                       | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| SSW                     | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| SW                      | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| WSW                     | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| W                       | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| WNW                     | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| NW                      | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| NNW                     | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| VARBL                   | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |
| CALM                    | •     | •     | •      | •       | •       | •       | •       | •       | •       | •       | •    | • | •                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS 11 5 7

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_

YEARS \_\_\_\_\_

HOURS (L S Y)

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS 11 5 T

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

| SPEED<br>(KTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | 7                     |
| NNE                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | 7                     |
| ESE                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | 7                     |
| SSW                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                  | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS LST

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_ HOURS (L S T) \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS L L S T

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_ YEARS \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS 11 5 T

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS L S T

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

HOURS

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ DATE \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

STATION NAME

YEARS

MONTH

HOURS LST

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

CLASS

HOURS LST

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

#CONT

CLASS

HOURS - 5 T

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS



4

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NNE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| ENE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| E                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| ESE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SSE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| S                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| WSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| W                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| WNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| VARBL                   | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| CALM                    | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS LST \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ MONTH \_\_\_\_\_ YEARS \_\_\_\_\_ HOURS \_\_\_\_\_

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

YEARS

STATION NAME

MOON

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_  
 STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
 LOCATION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|------|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEAR

MONTH

CLASS

HOURS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|------|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: \_\_\_\_\_ MONTH: \_\_\_\_\_  
STATION NUMBER: \_\_\_\_\_ YEAR: \_\_\_\_\_  
CLASS: \_\_\_\_\_ HOURS: 24

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |                       |

TOTAL NUMBER OF OBSERVATIONS

4

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: \_\_\_\_\_ MONTH: \_\_\_\_\_ YEAR: \_\_\_\_\_  
CLASS: \_\_\_\_\_ HOURS: \_\_\_\_\_  
CONDITION: \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

STATION NAME

DATE

CLASS

NO. OF

LOCATION

| SPEED<br>(KNTS)<br>DIR | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                  |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS LST \_\_\_\_\_  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_  
STATION \_\_\_\_\_ HOURS \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| FNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ STATION NO. \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS IN SET \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ MONTH \_\_\_\_\_ YEARS \_\_\_\_\_

HOURS \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_ YEARS \_\_\_\_\_

HOURS 1-5 T

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|------|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

STATION NAME \_\_\_\_\_ CLASS \_\_\_\_\_ HOURS (L S T) \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

HOURS 1-5 T

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NNE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| ENE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| E                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| ESE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SSE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| S                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| WSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| W                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| WNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| VARBL                   | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| CALM                    | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS LIST \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

CLASS

MOON

CLASS

HOURS

CONDITION

| SPEED<br>(KNTS)<br>DIR | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VABR                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
FROM HOURLY OBSERVATIONS

STATION: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_  
 NAME: \_\_\_\_\_ CLASS: \_\_\_\_\_ HOURS: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_ COORDINATES: \_\_\_\_\_

| SPEED<br>(KTS)<br>DIR | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-----------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|------|---|-----------------------|
| N                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NNE                   |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NE                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| ENE                   |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| E                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| ESE                   |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SE                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SSE                   |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| S                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SSW                   |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SW                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| WSW                   |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| W                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| WNW                   |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NW                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NNW                   |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| VARBL                 |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| CALM                  |     |     |      |       |       |       |       |       |       |       |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
FROM HOURLY OBSERVATIONS

STATION

LOCATION NAME

DATE

TIME

CITY

MOON

EDM. Y.M.

| SPEED<br>(KNTS)<br>DIR | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | MEAN<br>WIND<br>SPEED |
|------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|-----------------------|
| N                      |     |     |      |       |       |       |       |       |       |       |     |                       |
| NNE                    |     |     |      |       |       |       |       |       |       |       |     |                       |
| NE                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| ENE                    |     |     |      |       |       |       |       |       |       |       |     |                       |
| E                      |     |     |      |       |       |       |       |       |       |       |     |                       |
| ESE                    |     |     |      |       |       |       |       |       |       |       |     |                       |
| SE                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| SSE                    |     |     |      |       |       |       |       |       |       |       |     |                       |
| S                      |     |     |      |       |       |       |       |       |       |       |     |                       |
| SSW                    |     |     |      |       |       |       |       |       |       |       |     |                       |
| SW                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| WSW                    |     |     |      |       |       |       |       |       |       |       |     |                       |
| W                      |     |     |      |       |       |       |       |       |       |       |     |                       |
| WNW                    |     |     |      |       |       |       |       |       |       |       |     |                       |
| NW                     |     |     |      |       |       |       |       |       |       |       |     |                       |
| NNW                    |     |     |      |       |       |       |       |       |       |       |     |                       |
| VARBL                  |     |     |      |       |       |       |       |       |       |       |     |                       |
| CALM                   |     |     |      |       |       |       |       |       |       |       |     |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_  
CLASS: \_\_\_\_\_ HOURS: \_\_\_\_\_

CONDITION: \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS 11 5 T

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_

STATION NUMBER \_\_\_\_\_ YEARS \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS U.L.S.T. \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS LST

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
|                         | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS I L S T \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS (L S T) \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_ HOURS 1 2 3 4 5 6 7 8 9 10 11 12

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NNE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| ENE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| E                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| ESE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SSE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| S                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| WSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| W                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| WNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| VARBL                   | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| CALM                    | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS 1-5

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NNE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| ENE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| E                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| ESE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SSE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| S                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| WSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| W                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| WNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| VARBL                   | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| CALM                    | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEAR

MONTH

HOURS - 15

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | ° | MEAN<br>WIND<br>SPEED |
|------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                  |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

NAME

LEAF

DATE

CLASS

REMARKS

LOCATION

| SPEED<br>(KNTS)<br>DIR | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|------|---|-----------------------|
| N                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NNE                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| ENE                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| E                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| ESE                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SE                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SSE                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| S                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SSW                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| SW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| WSW                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| W                      |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| WNW                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NW                     |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| NNW                    |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| VARBL                  |     |     |      |       |       |       |       |       |       |       |      |   |                       |
| CALM                   |     |     |      |       |       |       |       |       |       |       |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS - L S T

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS 1 5 T \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NNE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| ENE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| E                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| ESE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SSE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| S                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| WSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| W                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| WNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| VARBL                   | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| CALM                    | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS . . . . .

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WS /                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |
| CALM                    | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_ HOURS \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NNE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| ENE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| E                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| ESE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SE                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SSE                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| S                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| SW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| WSW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| W                       | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| WNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NW                      | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| NNW                     | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| VARBL                   | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |
| CALM                    | .   | .   | .    | .     | .     | .     | .     | .     | .     | .     | .   | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_ HOURS \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_ HOURS \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-----|---|-----------------------|
| N                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ENE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| E                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| ESE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SE                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSE                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| S                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| SW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WSW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| W                       |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| WNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NW                      |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| NNW                     |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| VARBL                   |     |     |      |       |       |       |       |       |       |       |     |   |                       |
| CALM                    |     |     |      |       |       |       |       |       |       |       |     |   |                       |

TOTAL NUMBER OF OBSERVATIONS

## PART D CEILING VERSUS VISIBILITY

the 1990s, the proportion of children of origin from zero to equal to 100% has increased from 10% to 20% in the 1990s, and from 20% to 30% in the 2000s. The proportion of children of origin from 10 to 20% has increased from 10% to 20% in the 1990s, and from 20% to 30% in the 2000s. The proportion of children of origin from 20 to 30% has increased from 10% to 20% in the 1990s, and from 20% to 30% in the 2000s. The proportion of children of origin from 30 to 40% has increased from 10% to 20% in the 1990s, and from 20% to 30% in the 2000s. The proportion of children of origin from 40 to 50% has increased from 10% to 20% in the 1990s, and from 20% to 30% in the 2000s. The proportion of children of origin from 50 to 60% has increased from 10% to 20% in the 1990s, and from 20% to 30% in the 2000s. The proportion of children of origin from 60 to 70% has increased from 10% to 20% in the 1990s, and from 20% to 30% in the 2000s. The proportion of children of origin from 70 to 80% has increased from 10% to 20% in the 1990s, and from 20% to 30% in the 2000s. The proportion of children of origin from 80 to 90% has increased from 10% to 20% in the 1990s, and from 20% to 30% in the 2000s. The proportion of children of origin from 90 to 100% has increased from 10% to 20% in the 1990s, and from 20% to 30% in the 2000s.

[illegible][illegible]

the 1990s, the number of people who have been infected with HIV has increased significantly. In 1990, there were approximately 1 million people living with HIV worldwide. By 2000, this number had risen to over 40 million, and by 2010, it had reached over 35 million. The number of people who have died from AIDS-related complications has also increased significantly, from approximately 1 million in 1990 to over 25 million in 2010. The impact of HIV/AIDS on the global population is a major public health concern, and it is essential that we continue to research and develop effective treatments and prevention strategies.

# EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

| CEILING<br>FEET | VISIBILITY STATUTE MILES |     |     |     |     |     |     |     |     |     |
|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                 | 1.0                      | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 |
| 100             |                          |     |     |     |     |     |     |     |     |     |
| 200             |                          |     |     |     |     |     |     |     |     |     |
| 300             |                          |     |     |     |     |     |     |     |     |     |
| 400             |                          |     |     |     |     |     |     |     |     |     |
| 500             |                          |     |     |     |     |     |     |     |     |     |
| 600             |                          |     |     |     |     |     |     |     |     |     |
| 700             |                          |     |     |     |     |     |     |     |     |     |
| 800             |                          |     |     |     |     |     |     |     |     |     |
| 900             |                          |     |     |     |     |     |     |     |     |     |
| 1000            |                          |     |     |     |     |     |     |     |     |     |
| 1100            |                          |     |     |     |     |     |     |     |     |     |
| 1200            |                          |     |     |     |     |     |     |     |     |     |
| 1300            |                          |     |     |     |     |     |     |     |     |     |
| 1400            |                          |     |     |     |     |     |     |     |     |     |
| 1500            |                          |     |     |     |     |     |     |     |     |     |
| 1600            |                          |     |     |     |     |     |     |     |     |     |
| 1700            |                          |     |     |     |     |     |     |     |     |     |
| 1800            |                          |     |     |     |     |     |     |     |     |     |
| 1900            |                          |     |     |     |     |     |     |     |     |     |
| 2000            |                          |     |     |     |     |     |     |     |     |     |
| 2100            |                          |     |     |     |     |     |     |     |     |     |
| 2200            |                          |     |     |     |     |     |     |     |     |     |
| 2300            |                          |     |     |     |     |     |     |     |     |     |
| 2400            |                          |     |     |     |     |     |     |     |     |     |
| 2500            |                          |     |     |     |     |     |     |     |     |     |
| 2600            |                          |     |     |     |     |     |     |     |     |     |
| 2700            |                          |     |     |     |     |     |     |     |     |     |
| 2800            |                          |     |     |     |     |     |     |     |     |     |
| 2900            |                          |     |     |     |     |     |     |     |     |     |
| 3000            |                          |     |     |     |     |     |     |     |     |     |
| 3100            |                          |     |     |     |     |     |     |     |     |     |
| 3200            |                          |     |     |     |     |     |     |     |     |     |
| 3300            |                          |     |     |     |     |     |     |     |     |     |
| 3400            |                          |     |     |     |     |     |     |     |     |     |
| 3500            |                          |     |     |     |     |     |     |     |     |     |
| 3600            |                          |     |     |     |     |     |     |     |     |     |
| 3700            |                          |     |     |     |     |     |     |     |     |     |
| 3800            |                          |     |     |     |     |     |     |     |     |     |
| 3900            |                          |     |     |     |     |     |     |     |     |     |
| 4000            |                          |     |     |     |     |     |     |     |     |     |
| 4100            |                          |     |     |     |     |     |     |     |     |     |
| 4200            |                          |     |     |     |     |     |     |     |     |     |
| 4300            |                          |     |     |     |     |     |     |     |     |     |
| 4400            |                          |     |     |     |     |     |     |     |     |     |
| 4500            |                          |     |     |     |     |     |     |     |     |     |
| 4600            |                          |     |     |     |     |     |     |     |     |     |
| 4700            |                          |     |     |     |     |     |     |     |     |     |
| 4800            |                          |     |     |     |     |     |     |     |     |     |
| 4900            |                          |     |     |     |     |     |     |     |     |     |
| 5000            |                          |     |     |     |     |     |     |     |     |     |
| 5100            |                          |     |     |     |     |     |     |     |     |     |
| 5200            |                          |     |     |     |     |     |     |     |     |     |
| 5300            |                          |     |     |     |     |     |     |     |     |     |
| 5400            |                          |     |     |     |     |     |     |     |     |     |
| 5500            |                          |     |     |     |     |     |     |     |     |     |
| 5600            |                          |     |     |     |     |     |     |     |     |     |
| 5700            |                          |     |     |     |     |     |     |     |     |     |
| 5800            |                          |     |     |     |     |     |     |     |     |     |
| 5900            |                          |     |     |     |     |     |     |     |     |     |
| 6000            |                          |     |     |     |     |     |     |     |     |     |
| 6100            |                          |     |     |     |     |     |     |     |     |     |
| 6200            |                          |     |     |     |     |     |     |     |     |     |
| 6300            |                          |     |     |     |     |     |     |     |     |     |
| 6400            |                          |     |     |     |     |     |     |     |     |     |
| 6500            |                          |     |     |     |     |     |     |     |     |     |
| 6600            |                          |     |     |     |     |     |     |     |     |     |
| 6700            |                          |     |     |     |     |     |     |     |     |     |
| 6800            |                          |     |     |     |     |     |     |     |     |     |
| 6900            |                          |     |     |     |     |     |     |     |     |     |
| 7000            |                          |     |     |     |     |     |     |     |     |     |
| 7100            |                          |     |     |     |     |     |     |     |     |     |
| 7200            |                          |     |     |     |     |     |     |     |     |     |
| 7300            |                          |     |     |     |     |     |     |     |     |     |
| 7400            |                          |     |     |     |     |     |     |     |     |     |
| 7500            |                          |     |     |     |     |     |     |     |     |     |
| 7600            |                          |     |     |     |     |     |     |     |     |     |
| 7700            |                          |     |     |     |     |     |     |     |     |     |
| 7800            |                          |     |     |     |     |     |     |     |     |     |
| 7900            |                          |     |     |     |     |     |     |     |     |     |
| 8000            |                          |     |     |     |     |     |     |     |     |     |
| 8100            |                          |     |     |     |     |     |     |     |     |     |
| 8200            |                          |     |     |     |     |     |     |     |     |     |
| 8300            |                          |     |     |     |     |     |     |     |     |     |
| 8400            |                          |     |     |     |     |     |     |     |     |     |
| 8500            |                          |     |     |     |     |     |     |     |     |     |
| 8600            |                          |     |     |     |     |     |     |     |     |     |
| 8700            |                          |     |     |     |     |     |     |     |     |     |
| 8800            |                          |     |     |     |     |     |     |     |     |     |
| 8900            |                          |     |     |     |     |     |     |     |     |     |
| 9000            |                          |     |     |     |     |     |     |     |     |     |
| 9100            |                          |     |     |     |     |     |     |     |     |     |
| 9200            |                          |     |     |     |     |     |     |     |     |     |
| 9300            |                          |     |     |     |     |     |     |     |     |     |
| 9400            |                          |     |     |     |     |     |     |     |     |     |
| 9500            |                          |     |     |     |     |     |     |     |     |     |
| 9600            |                          |     |     |     |     |     |     |     |     |     |
| 9700            |                          |     |     |     |     |     |     |     |     |     |
| 9800            |                          |     |     |     |     |     |     |     |     |     |
| 9900            |                          |     |     |     |     |     |     |     |     |     |
| 10000           |                          |     |     |     |     |     |     |     |     |     |

- EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
 For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
 Ceiling  $\geq 500$  feet = 98.1%.
- EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
 Visibility  $\geq 3$  miles = 95.4%.  
 Visibility  $\geq 2$  miles = 96.9%.  
 Visibility  $\geq 1$  mile = 98.3%.
- EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

## PART D

### ADDITIONAL EXAMPLES

#### EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%. Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

#### EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of > 1500 feet with > 3 miles, subtracted from 97.4 read from the table at the intersection of > 500 feet with > 1 mile is equal to 6.4%. Thus, 6.4 percent of the observations meet the criteria: "ceiling > 500 feet with visibility > 1 mile, but < 3 miles; or ceiling > 500 feet, but < 1500 feet with visibility > 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.



## PART D

SKY COVER

[illegible]

the 1990s, the number of people in the world who are undernourished has declined from 1.1 billion to 800 million. The number of people who are malnourished has declined from 1.5 billion to 1 billion. The number of people who are obese has increased from 100 million to 300 million. The number of people who are overweight has increased from 100 million to 300 million. The number of people who are obese and overweight has increased from 100 million to 300 million. The number of people who are obese and overweight has increased from 100 million to 300 million.



# CEILING VERSUS VISIBILITY

STATION NAME

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH

VISIBILITY (STATUTE MILES)

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

NO. OF

FEET

20000

19000

18000

17000

16000

15000

14000

13000

12000

11000

10000

9000

8000

7000

6000

5000

4500

4000

3500

3000

2500

2000

1800

1500

1200

1000

900

800

700

600

500

400

300

200

100

0

AL AL

AL AL

AL AL

AL AL

AL AL

AL AL

AL AL

AL AL

AL AL

TOTAL NUMBER OF OBSERVATIONS

STATION NAME

# CEILING VERSUS VISIBILITY

STATION NAME  
MONTH  
YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |       |     |       |     |      |       |      |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|-----|------|-------|------|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .5 | ≥ .25 | ≥ .1 |
| NO CEILING      |                            |     |     |     |     |       |     |       |     |      |       |      |
| 20000           | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 18000           | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 16000           | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 14000           | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 12000           | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 10000           | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 9000            | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 8000            | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 7000            | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 6000            | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 5000            | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 4500            | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 4000            | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 3500            | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 3000            | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 2500            | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 2000            | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 1800            | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 1500            | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 1200            | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 1000            | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 900             | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 800             | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 700             | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 600             | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 500             | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 400             | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 300             | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 200             | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 100             | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |
| 0               | AI                         |     |     |     |     |       |     |       |     |      |       | AI   |

TOTAL NUMBER OF OBSERVATIONS

STATION NAME

# CEILING VERSUS VISIBILITY

STATION NAME  
STATION  
YEARS  
MONTH  
HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY, STATUTE MILES |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
|-----------------|---------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|-----|
|                 | ≥ 10                      | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING      |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| ≥ 20000         |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 18000           |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 16000           |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 14000           |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 12000           |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 10000           |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 9000            |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 8000            |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 7000            |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 6000            |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 5000            |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 4500            |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 4000            |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 3500            |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 3000            |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 2500            |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 2000            |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 1800            |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 1500            |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 1200            |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 1000            |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 900             |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 800             |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 700             |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 600             |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 500             |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 400             |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 300             |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 200             |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 100             |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| 0               |                           |     |     |     |     |      |     |      |      |     |     |     |        |     |     |

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |

TOTAL NUMBER OF OBSERVATIONS

DATE

*(continued)*

COMMON

MCUBS - L S T

## VISIBILITY (STATUTE MILES)

[illegible]

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL REPORT

# CEILING VERSUS VISIBILITY

STATION NAME  
MONTH  
HOURS LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|-----|--|--|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 |  |  |
| NO CEILING        |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| ≥ 20000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 18000             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 16000             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 14000             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 12000             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 10000             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 9000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 8000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 7000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 6000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 5000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 4500              |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 4000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 3500              |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 3000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 2500              |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 2000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 1800              |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 1500              |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 1200              |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 1000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 900               |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 800               |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 700               |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 600               |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 500               |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 400               |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 300               |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 200               |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 100               |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |
| 0                 |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |  |  |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

| CEILING<br>'FEET' | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 | ≥ 0 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

DATE RECEIVED

# CEILING VERSUS VISIBILITY

STATION NAME

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

NO. OF

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|---------|-----|---------|---------|-----|-------|-------|-------|-------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 1/2 | ≥ 2 | ≥ 1 1/2 | ≥ 1 1/4 | ≥ 1 | ≥ 3/4 | ≥ 1/2 | ≥ 1/4 | ≥ 1/8 | ≥ 5/16 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| ≥ 20000         |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 18000           |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 16000           |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 14000           |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 12000           |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 10000           |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 9000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 8000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 7000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 6000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 5000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 4500            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 4000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 3500            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 3000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 2500            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 2000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 1800            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 1500            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 1200            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 1000            |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 900             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 800             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 700             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 600             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 500             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 400             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 300             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 200             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 100             |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |
| 0               |                            |     |     |     |     |         |     |         |         |     |       |       |       |       |        |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |     |     |     |     |     |         |     |       |       |     |
|-----------------|--------------------------|-----|-----|-----|-----|-----|---------|-----|-------|-------|-----|
|                 | ≥ 10                     | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 | ≥ 1 1/2 | ≥ 1 | ≥ 3/4 | ≥ 1/2 | ≥ 0 |
| NO CEILING      |                          |     |     |     |     |     |         |     |       |       |     |
| ≥ 20000         |                          |     |     |     |     |     |         |     |       |       |     |
| 18000           |                          |     |     |     |     |     |         |     |       |       |     |
| 16000           |                          |     |     |     |     |     |         |     |       |       |     |
| 14000           |                          |     |     |     |     |     |         |     |       |       |     |
| 12000           |                          |     |     |     |     |     |         |     |       |       |     |
| 10000           |                          |     |     |     |     |     |         |     |       |       |     |
| 9000            |                          |     |     |     |     |     |         |     |       |       |     |
| 8000            |                          |     |     |     |     |     |         |     |       |       |     |
| 7000            |                          |     |     |     |     |     |         |     |       |       |     |
| 6000            |                          |     |     |     |     |     |         |     |       |       |     |
| 5000            |                          |     |     |     |     |     |         |     |       |       |     |
| 4500            |                          |     |     |     |     |     |         |     |       |       |     |
| 4000            |                          |     |     |     |     |     |         |     |       |       |     |
| 3500            |                          |     |     |     |     |     |         |     |       |       |     |
| 3000            |                          |     |     |     |     |     |         |     |       |       |     |
| 2500            |                          |     |     |     |     |     |         |     |       |       |     |
| 2000            |                          |     |     |     |     |     |         |     |       |       |     |
| 1800            |                          |     |     |     |     |     |         |     |       |       |     |
| 1500            |                          |     |     |     |     |     |         |     |       |       |     |
| 1200            |                          |     |     |     |     |     |         |     |       |       |     |
| 1000            |                          |     |     |     |     |     |         |     |       |       |     |
| 900             |                          |     |     |     |     |     |         |     |       |       |     |
| 800             |                          |     |     |     |     |     |         |     |       |       |     |
| 700             |                          |     |     |     |     |     |         |     |       |       |     |
| 600             |                          |     |     |     |     |     |         |     |       |       |     |
| 500             |                          |     |     |     |     |     |         |     |       |       |     |
| 400             |                          |     |     |     |     |     |         |     |       |       |     |
| 300             |                          |     |     |     |     |     |         |     |       |       |     |
| 200             |                          |     |     |     |     |     |         |     |       |       |     |
| 100             |                          |     |     |     |     |     |         |     |       |       |     |
| 0               |                          |     |     |     |     |     |         |     |       |       |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |         |     |         |     |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|---------|-----|---------|-----|
|                 | ≥ 10                       | ≥ 9 | ≥ 8 | ≥ 7 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 1/2 | ≥ 2 | ≥ 1 1/2 | ≥ 1 |
| NO CEILING      |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 20000         |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 18000         |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 16000         |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 14000         |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 12000         |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 10000         |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 9000          |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 8000          |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 7000          |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 6000          |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 5000          |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 4500          |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 4000          |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 3500          |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 3000          |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 2500          |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 2000          |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 1800          |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 1500          |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 1200          |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 1000          |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 900           |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 800           |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 700           |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 600           |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 500           |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 400           |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 300           |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 200           |                            |     |     |     |     |     |     |     |         |     |         |     |
| ≥ 100           |                            |     |     |     |     |     |     |     |         |     |         |     |
| 0               |                            |     |     |     |     |     |     |     |         |     |         |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

2014

7678 MC: 7, 8, 5

21-115

五

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]



AD-A150 377

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
OCEANA VIRGINIA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC NOV 83

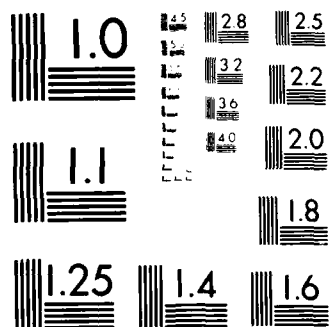
3/4

UNCLASSIFIED

F/G 4/2

NL

A 10x10 grid of squares, with the top-left square missing.



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|--------|-----|-----|--|--|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 0 |  |  |
| NO CEILING        |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| ≥ 20000           |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 18000             |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 16000             |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 14000             |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 12000             |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 10000             |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 9000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 8000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 7000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 6000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 5000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 4500              |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 4000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 3500              |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 3000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 2500              |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 2000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 1800              |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 1500              |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 1200              |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 1000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 900               |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 800               |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 700               |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 600               |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 500               |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 400               |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 300               |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 200               |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 100               |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |
| 0                 |                            |     |     |     |     |      |     |      |     |     |     |        |     |     |  |  |

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEAN:1ET SMOS

# Wissenschaften und Kulturen

**MONYH**

MOUSE (L S Y )

## VISIBILITY (STATUTE MILES)

[illegible]

TOTAL NUMBER OF OBSERVATIONS

DIRNA VOCEANMET SMOS

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_  
 HOURS (L.S.T.) \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# CEILING VERSUS VISIBILITY

NAME OF AERODROME DEPARTMENT, AND VILLAGE

STATION

STATION NAME

YEARS

MONTH

HOURS L.S.T.

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 0 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 20000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

DIPLOMA OCEANMET SMOS

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_  
 YEARS \_\_\_\_\_  
 MONTH \_\_\_\_\_  
 HOURS (L.S.T.) \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 0 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|--------|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/5 | ≥ 1/10 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 20000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH

HOURS

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 0 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEAN:1ET SMOS

# CEILING VERSUS VISIBILITY

NATIONAL WEATHER SERVICE METEOROLOGICAL SERVICE

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|--------|-----|-------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 18000             |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 16000             |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 14000             |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 12000             |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 10000             |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 9000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 8000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 7000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 6000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 5000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 4500              |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 4000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 3500              |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 3000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 2500              |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 2000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 1800              |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 1500              |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 1200              |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 1000              |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 900               |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 800               |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 700               |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 600               |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 500               |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 400               |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 300               |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 200               |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 100               |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 0                 |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |

TOTAL NUMBER OF OBSERVATIONS

DIRECTOR GENERAL METEOROLOGICAL SERVICE

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI 20000          |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI 18000          |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 16000       |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 14000       |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 12000       |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 10000       |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 9000        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 8000        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 7000        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 6000        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 5000        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 4500        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 4000        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 3500        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 3000        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 2500        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 2000        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 1800        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 1500        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 1200        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 1000        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 900         |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 800         |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 700         |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 600         |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 500         |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 400         |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 300         |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 200         |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 100         |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
| AI AI 0           |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |

TOTAL NUMBER OF OBSERVATIONS

UNIT: AVOGADRETT 5MOS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS - LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ STATION: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_ NO. OF OBS.: \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|--------|-----|-------|------|-------|-------|------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1.25 | ≥ 1 | ≥ .75 | ≥ .5 | ≥ .25 | ≥ .15 | ≥ .1 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| ≥ 20000         |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 18000           |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 16000           |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 14000           |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 12000           |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 10000           |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 9000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 8000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 7000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 6000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 5000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 4500            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 4000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 3500            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 3000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 2500            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 2000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 1800            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 1500            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 1200            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 1000            |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 900             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 800             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 700             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 600             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 500             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 400             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 300             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 200             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 100             |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |
| 0               |                            |     |     |     |     |       |     |       |        |     |       |      |       |       |      |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|--------|--------|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 20000             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 18000             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 16000             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 14000             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 12000             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 10000             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 9000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 8000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 7000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 6000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 5000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 4500              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 4000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 3500              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 3000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 2500              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 2000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 1800              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 1500              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 1200              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 1000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 900               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 800               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 700               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 600               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 500               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 400               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 300               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 200               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 100               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 0                 |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |

TOTAL NUMBER OF OBSERVATIONS

DIR JAVOCEANDET SMOS



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

PERCENT

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 5/16 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEN-JET SMOS

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# CEILING VERSUS VISIBILITY

STATION NAME  
 YEARS  
 MONTH  
 RECORDS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5-16 | ≥ ¼ | ≥ 0 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NATIONAL WEATHER SERVICE OFFICE OF FAULTONVILLE, ASHEVILLE, NC

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS - L S T

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |        |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |

TOTAL NUMBER OF OBSERVATIONS

OFFICE OF FAULTONVILLE, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_  
 YEARS \_\_\_\_\_ HOURS \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 0 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |        |     |     |     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

[illegible]

YEARS

MONTH

MOVIES 157

## VISIBILITY (STATUTE MILES)

[illegible]

TOTAL NUMBER OF OBSERVATIONS

[illegible]

# CEILING VERSUS VISIBILITY

STATION

3747 CM MA 961

5071A

CONFIDENTIAL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_ YEARS \_\_\_\_\_ HOURS C.S.T. \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|--------|-------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 5/16 | ≥ 1/4 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |       |     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_



# CEILING VERSUS VISIBILITY

STATION

STATE OR NAME

YEARS

MONTH

HOURS LIST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ⅓ | ≥ ⅒ | ≥ ⅛ | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 18000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 16000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 14000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 12000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 10000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 9000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 8000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 7000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 6000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 5000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 4500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 4000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 3500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 3000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 2500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 2000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 1800          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 1500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 1200          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 1000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 900           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 800           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 700           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 600           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 500           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 400           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 300           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 200           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 100           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |
| ≥ 0             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

OFFICE OF THE SECRETARY OF THE ARMY

## CEILING VERSUS VISIBILITY

SYNOPSIS

STATION NAME

5071A

**WILEY**

10

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

TOTAL NUMBER OF OBSERVATIONS

1. *Staphylococcus aureus* (10<sup>8</sup> CFU/ml)  
2. *Staphylococcus aureus* (10<sup>7</sup> CFU/ml)  
3. *Staphylococcus aureus* (10<sup>6</sup> CFU/ml)  
4. *Staphylococcus aureus* (10<sup>5</sup> CFU/ml)  
5. *Staphylococcus aureus* (10<sup>4</sup> CFU/ml)  
6. *Staphylococcus aureus* (10<sup>3</sup> CFU/ml)  
7. *Staphylococcus aureus* (10<sup>2</sup> CFU/ml)  
8. *Staphylococcus aureus* (10<sup>1</sup> CFU/ml)  
9. *Staphylococcus aureus* (10<sup>0</sup> CFU/ml)  
10. *Staphylococcus aureus* (10<sup>-1</sup> CFU/ml)

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|--------|-------|-------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 5/16 | ≥ 1/4 | ≥ 1/8 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 18000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 16000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 14000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 12000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 10000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 9000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 8000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 7000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 6000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 5000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 4500          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 4000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 3500          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 3000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 2500          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 2000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 1800          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 1500          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 1200          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 1000          |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 900           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 800           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 700           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 600           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 500           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 400           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 300           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 200           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 100           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |
| ≥ 0             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |       |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
|-----------------|--------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|--------|--------|--------|-----|
|                 | ≥ 10                     | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 1/64 | ≥ 0 |
| NO CEILING      |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| ≥ 20000         |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 18000           |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 16000           |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 14000           |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 12000           |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 10000           |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 9000            |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 8000            |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 7000            |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 6000            |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 5000            |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 4500            |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 4000            |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 3500            |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 3000            |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 2500            |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 2000            |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 1800            |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 1500            |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 1200            |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 1000            |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 900             |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 800             |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 700             |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 600             |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 500             |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 400             |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 300             |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 200             |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 100             |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |
| 0               |                          |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 HOURS \_\_\_\_\_ LST \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|--------|-------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 5/16 | ≥ 1/4 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 18000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 16000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 14000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 12000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 10000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 9000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 8000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 7000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 6000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 5000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 4500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 4000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 3500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 3000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 2500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 2000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 1800            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 1500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 1200            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 1000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 900             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 800             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 700             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 600             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 400             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 300             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 200             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 100             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |
| 0               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |       |     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

COPY TO VOCEAN MET SMOOS

# CEILING VERSUS VISIBILITY

MONTH

HOURS LST

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

STATION NAME

STATION

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|--------|-----|-------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 20000           |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 18000           |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 16000           |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 14000           |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 12000           |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 10000           |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 9000            |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 8000            |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 7000            |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 6000            |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 5000            |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 4500            |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 4000            |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 3500            |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 3000            |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 2500            |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 2000            |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 1800            |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 1500            |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 1200            |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 1000            |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 900             |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 800             |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 700             |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 600             |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 400             |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 300             |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 200             |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 100             |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |
| 0               |                            |     |     |     |     |      |     |      |     |     |     |        |     |       |     |     |

TOTAL NUMBER OF OBSERVATIONS

DATE: JAVUOENDET 5205

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 18000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 16000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 14000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 12000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 10000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 9000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 8000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 7000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 6000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 5000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 4500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 4000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 3500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 3000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 2500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 2000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 1800          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 1500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 1200          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 1000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 900           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 800           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 700           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 600           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 500           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 400           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 300           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 200           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 100           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |
| ≥ 0             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 1-64 (REV. 1-64)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

STATION NAME



500

VISIBILITY STATUTE MILES

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | ≥ 10 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 1/2 | ≥ 2 | ≥ 1 1/2 | ≥ 1 1/4 | ≥ 1 | ≥ 3/4 | ≥ 1/2 | ≥ 1/4 | ≥ 1/8 | ≥ 5/16 | ≥ 1/4 | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 |
|-----------------|------|-----|-----|-----|-----|---------|-----|---------|---------|-----|-------|-------|-------|-------|--------|-------|-------|--------|--------|
| NO CEILING      |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 20000           |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 18000           |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 16000           |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 14000           |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 12000           |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 10000           |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 9000            |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 8000            |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 7000            |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 6000            |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 5000            |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 4500            |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 4000            |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 3500            |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 3000            |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 2500            |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 2000            |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 1800            |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 1500            |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 1200            |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 1000            |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 900             |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 800             |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 700             |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 600             |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 500             |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 400             |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 300             |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 200             |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 100             |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |
| 0               |      |     |     |     |     |         |     |         |         |     |       |       |       |       |        |       |       |        |        |

# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ YEAR: \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

| CEILING<br>FEET | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 | 3.7 | 3.8 | 3.9 | 4.0 | 4.1 | 4.2 | 4.3 | 4.4 | 4.5 | 4.6 | 4.7 | 4.8 | 4.9 | 5.0 |  |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| NO CEILING      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 25000           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 20000           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 18000           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 16000           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 14000           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 12000           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 10000           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 9000            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 8000            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 7000            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 6000            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 5000            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 4500            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 4000            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 3500            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 3000            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 2500            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 2000            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 1800            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 1500            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 1200            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 1000            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 900             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 800             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 700             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 600             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 500             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 400             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 300             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 200             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 100             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 0               |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY STATUTE MILE |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
|-----------------|-------------------------|-----|-----|-----|-----|-------|-----|-------|-----|------|-------|-------|------|-------|--------|-------|-----|
|                 | ≥ 10                    | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .5 | ≥ .25 | ≥ .15 | ≥ .1 | ≥ .05 | ≥ .025 | ≥ .01 | ≥ 0 |
| NO CEILING      |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| ≥ 20000         |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 18000           |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 16000           |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 14000           |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 12000           |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 10000           |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 9000            |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 8000            |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 7000            |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 6000            |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 5000            |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 4500            |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 4000            |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 3500            |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 3000            |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 2500            |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 2000            |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 1800            |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 1500            |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 1200            |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 1000            |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 900             |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 800             |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 700             |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 600             |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 500             |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 400             |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 300             |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 200             |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 100             |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |
| 0               |                         |     |     |     |     |       |     |       |     |      |       |       |      |       |        |       |     |

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 1-60 (REV. 1-65)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|--------|--------|--------|---------|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 1/64 | ≥ 1/128 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 18000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 16000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 14000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 12000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 10000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 9000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 8000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 7000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 6000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 5000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 4500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 4000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 3500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 3000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 2500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 2000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 1800            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 1500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 1200            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 1000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 900             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 800             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 700             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 600             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 400             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 300             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 200             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 100             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |
| 0               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |        |         |

TOTAL NUMBER OF OBSERVATIONS

FORM 1-1-61 (REV. 1-1-61)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|---------|-----|---------|-----|-------|-------|-------|-------|--------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 1/2 | ≥ 2 | ≥ 1 1/2 | ≥ 1 | ≥ 3/4 | ≥ 1/2 | ≥ 1/4 | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
| ≥ 2000          |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
| 1800            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
| 1600            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
| 1400            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
| 1200            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
| 1000            |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
| 900             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
| 800             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
| 700             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
| 600             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
| 500             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
| 400             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
| 300             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
| 200             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
| 100             |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |
| 0               |                            |     |     |     |     |         |     |         |     |       |       |       |       |        |        |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

VISIBILITY, STATUTE MILES

CEILING  
FEET

200 150 100 50 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

NO. OF  
OBS.

20000

18000

16000

14000

12000

10000

9000

8000

7000

6000

5000

4500

4000

3500

3000

2500

2000

1800

1500

1200

1000

900

800

700

600

500

400

300

200

100

0

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|-----|------|-------|-------|------|-------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .5 | ≥ .25 | ≥ .15 | ≥ .1 | ≥ .05 | ≥ .025 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 20000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 18000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 16000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 14000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 12000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 10000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 9000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 8000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 7000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 6000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 5000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 4500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 4000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 3500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 3000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 2500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 2000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 1800            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 1500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 1200            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 1000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 900             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 800             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 700             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 600             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 500             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 400             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 300             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 200             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 100             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 0               |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

CEILING (FEET)

20000

18000

16000

14000

12000

10000

9000

8000

7000

6000

5000

4500

4000

3500

3000

2500

2000

1500

1000

900

800

700

600

500

400

300

200

100

0

NO. OF

OBSERVATIONS

AT

CEILING

AT

CEILING

AT

CEILING

AT

CEILING

AT

CEILING

AT

CEILING

AT

CEILING

AT

CEILING

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CEILING

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CEILING

AT

CEILING

AT

CEILING

AT

CEILING

AT

CEILING

AT

CEILING

AT

CEILING

AT

CEILING

AT

TOTAL NUMBER OF OBSERVATIONS





# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

DIFFERENCE BETWEEN STATIONS

# CEILING VERSUS VISIBILITY

STATION NAME

STATION

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 18000         |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 16000         |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 14000         |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 12000         |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 10000         |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 9000          |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 8000          |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 7000          |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 6000          |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 5000          |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 4500          |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 4000          |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 3500          |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 3000          |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 2500          |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 2000          |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 1800          |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 1500          |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 1200          |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 1000          |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 900           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 800           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 700           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 600           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 500           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 400           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 300           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 200           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 100           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS 1-24

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|-----|-------|------|-------|-------|------|--------|-------|--------|--------|-------|---------|--------|---------|---------|--------|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .75 | ≥ .5 | ≥ .25 | ≥ .15 | ≥ .1 | ≥ .075 | ≥ .05 | ≥ .025 | ≥ .015 | ≥ .01 | ≥ .0075 | ≥ .005 | ≥ .0025 | ≥ .0015 | ≥ .001 |
| NO CEILING      |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| ≥ 20000         |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 18000           |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 16000           |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 14000           |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 12000           |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 10000           |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 9000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 8000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 7000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 6000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 5000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 4500            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 4000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 3500            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 3000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 2500            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 2000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 1800            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 1500            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 1200            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 1000            |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 900             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 800             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 700             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 600             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 500             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 400             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 300             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 200             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 100             |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |
| 0               |                            |     |     |     |     |       |     |       |     |       |      |       |       |      |        |       |        |        |       |         |        |         |         |        |

TOTAL NUMBER OF OBSERVATIONS

FORM AVIATION DET - 5005

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ½ | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 18000         |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 16000         |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 14000         |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 12000         |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 10000         |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 9000          |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 8000          |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 7000          |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 6000          |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 5000          |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 4500          |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 4000          |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 3500          |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 3000          |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 2500          |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 2000          |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 1800          |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 1500          |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 1200          |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 1000          |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 900           |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 800           |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 700           |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 600           |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 500           |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 400           |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 300           |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 200           |                            |     |     |     |     |      |     |      |     |     |     |
| ≥ 100           |                            |     |     |     |     |      |     |      |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 10-1-57

# CEILING VERSUS VISIBILITY

U.S. AIR FORCE, OFFICE OF THE AIR FORCE ATTORNEY GENERAL, WASHINGTON, D.C.

STATION

STATION NAME

YEARS

MONTH

HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|--------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 18000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 16000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 14000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 12000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 10000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 9000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 8000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 7000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 6000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 5000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 4500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 4000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 3500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 3000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 2500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 2000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 1800            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 1500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 1200            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 1000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 900             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 800             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 700             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 600             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 400             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 300             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 200             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 100             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 0               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |

TOTAL NUMBER OF OBSERVATIONS

DIRTY VOCEANDET 5105



STATION

DAYTON, OH

5043

# EXPLANATION

MC-MS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_ HOURS LST \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|--------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 18000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 16000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 14000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 12000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 10000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 9000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 8000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 7000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 6000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 5000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 4500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 4000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 3500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 3000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 2500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 2000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 1800            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 1500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 1200            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 1000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 900             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 800             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 700             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 600             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 400             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 300             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 200             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 100             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 0               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

OFFICE OF THE SECRETARY OF THE ARMY

# CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |

TOTAL NUMBER OF OBSERVATIONS

## CEILING VERSUS VISIBILITY

STATION NAME:

**SECRET**

SECRET

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

155

[illegible]

TOTAL NUMBER OF OBSERVATIONS

# THE GREAT 1950S

**MONTANA**

## STAFF

STATION NAME

SYA - ON

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                 | 2.10                       | 2.6 | 2.5 | 2.4 | 2.3 | 2.2 | 2.1 | 2.0 | 1.9 | 1.8 | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 | 1.2 |
| NO CEILING      |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 20000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 18000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 16000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 14000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 12000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 10000           |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 9000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 8000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 7000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 6000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 5000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1500            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1000            |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 500             |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0               |                            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |



# CEILING VERSUS VISIBILITY

STATION NAME

YEAR

STATION NAME

YEAR

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |       |       |       |       |       |       |      |      |      |      |      |      |      |      |      |
|-----------------|----------------------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
|                 | NO<br>CEILING              | 20000 | 18000 | 16000 | 14000 | 12000 | 10000 | 9000 | 8000 | 7000 | 6000 | 5000 | 4500 | 4000 | 3500 | 3000 |
| NO<br>CEILING   | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 20000           | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 18000           | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 16000           | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 14000           | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 12000           | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 10000           | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 9000            | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 8000            | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 7000            | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 6000            | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 5000            | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 4500            | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 4000            | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 3500            | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 3000            | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 2500            | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 2000            | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 1800            | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 1600            | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 1400            | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 1200            | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 1000            | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 900             | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 800             | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 700             | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 600             | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 500             | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 400             | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 300             | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 200             | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 100             | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |
| 0               | AL                         | AL    | AL    | AL    | AL    | AL    | AL    | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   | AL   |

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

STAFF : CHM

1947, 5

500

1  
 2  
 3  
 4  
 5

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PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_ HOURS: \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |     |

TOTAL NUMBER OF OBSERVATIONS

## CEILING VERSUS VISIBILITY

STANDARD

STATION NAME

**YEARS**

HYCMM

MS. S. 1

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

TOTAL NUMBER OF OBSERVATIONS

[illegible]

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |

TOTAL NUMBER OF OBSERVATIONS

STATION IDENTIFICATION

# CEILING VERSUS VISIBILITY

STATION NAME  
MONTH  
YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | ≥ 10 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
|-----------------|------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|
| NO CEILING      |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 20000         |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 18000         |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 16000         |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 14000         |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 12000         |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 10000         |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 9000          |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 8000          |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 7000          |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 6000          |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 5000          |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 4500          |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 4000          |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 3500          |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 3000          |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 2500          |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 2000          |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 1800          |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 1500          |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 1200          |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 1000          |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 900           |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 800           |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 700           |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 600           |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 500           |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 400           |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 300           |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 200           |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 100           |      |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 0               |      |     |     |     |     |      |     |      |      |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS - L.S.T.

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|--------|--------|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 18000             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 16000             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 14000             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 12000             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 10000             |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 9000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 8000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 7000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 6000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 5000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 4500              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 4000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 3500              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 3000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 2500              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 2000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 1800              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 1500              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 1200              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 1000              |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 900               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 800               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 700               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 600               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 500               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 400               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 300               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 200               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 100               |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |
| 0                 |                            |     |     |     |     |      |     |      |     |     |     |     |       |        |        |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME  
MONTH  
YEAR  
NO. OF YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | ≥ 10 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .5 | ≥ .25 | ≥ .1 | ≥ .05 | ≥ .025 | ≥ .01 | ≥ 0 |
|-----------------|------|-----|-----|-----|-----|-------|-----|-------|-----|------|-------|------|-------|--------|-------|-----|
| NO CEILING      |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| ≥ 20000         |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 18000           |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 16000           |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 14000           |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 12000           |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 10000           |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 9000            |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 8000            |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 7000            |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 6000            |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 5000            |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 4500            |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 4000            |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 3500            |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 3000            |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 2500            |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 2000            |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 1800            |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 1500            |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 1200            |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 1000            |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 900             |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 800             |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 700             |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 600             |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 500             |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 400             |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 300             |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 200             |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 100             |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |
| 0               |      |     |     |     |     |       |     |       |     |      |       |      |       |        |       |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS 1 5 7

| CEILING<br>'FEET' | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL RECORD SET 5105



# CEILING VERSUS VISIBILITY

# STATION

STATION NAME

YEARS

**MEMORANDUM**

HC-05, 5 Y

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

TOTAL NUMBER OF OBSERVATIONS

[illegible]

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |

TOTAL NUMBER OF OBSERVATIONS

FORM 1-61 (REV. 1-55)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |     |     |     |     |       |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 18000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 16000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 14000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 12000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 10000           |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 9000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 8000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 7000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 6000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 5000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 4500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 4000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 3500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 3000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 2500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 2000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 1800            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 1500            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 1200            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 1000            |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 900             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 800             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 700             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 600             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 400             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 300             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 200             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 100             |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |
| 0               |                            |     |     |     |     |      |     |      |     |     |     |     |       |     |

TOTAL NUMBER OF OBSERVATIONS

STATION NAME

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |     |     |     |      |     |      |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----|
|                 | ≥ 10                       | ≥ 9 | ≥ 8 | ≥ 7 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 20000           |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 18000           |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 16000           |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 14000           |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 12000           |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 10000           |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 9000            |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 8000            |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 7000            |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 6000            |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 5000            |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 4500            |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 4000            |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 3500            |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 3000            |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 2500            |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 2000            |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 1800            |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 1500            |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 1200            |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 1000            |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 900             |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 800             |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 700             |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 600             |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 500             |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 400             |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 300             |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 200             |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 100             |                            |     |     |     |     |     |     |     |      |     |      |     |     |
| 0               |                            |     |     |     |     |     |     |     |      |     |      |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ YEAR: \_\_\_\_\_ MONTH: \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |     |     |     |     |      |     |      |     |     |     |
|-----------------|--------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|
|                 | ≥ 10                     | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ |
| NO CEILING      |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 20000         |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 18000         |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 16000         |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 14000         |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 12000         |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 10000         |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 9000          |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 8000          |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 7000          |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 6000          |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 5000          |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 4500          |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 4000          |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 3500          |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 3000          |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 2500          |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 2000          |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 1800          |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 1500          |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 1200          |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 1000          |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 900           |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 800           |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 700           |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 600           |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 500           |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 400           |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 300           |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 200           |                          |     |     |     |     |      |     |      |     |     |     |
| ≥ 100           |                          |     |     |     |     |      |     |      |     |     |     |
| 0               |                          |     |     |     |     |      |     |      |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

DATE: \_\_\_\_\_

# CEILING VERSUS VISIBILITY

STATE OR NAME

STATION

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                 | 2.0                      | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 |
| NO CEILING      |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 20000           |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 18000           |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 16000           |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 14000           |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 12000           |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 10000           |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 9000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 8000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 7000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 6000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 5000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4500            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3500            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2500            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1500            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1000            |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 900             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 800             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 700             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 600             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 500             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 400             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 300             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 200             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 100             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0               |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

STATION NUMBER



# CEILING VERSUS VISIBILITY

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|--------|------|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 5/16 | ≥ 10 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |        |      |

TOTAL NUMBER OF OBSERVATIONS

STATION NAME



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 18000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 16000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 14000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 12000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 10000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 9000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 8000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 7000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 6000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 5000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 4500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 4000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 3500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 3000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 2500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 2000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 1800          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 1500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 1200          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 1000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 900           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 800           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 700           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 600           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 500           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 400           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 300           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 200           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| ≥ 100           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |     |

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 1-1964

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
|-----------------|----------------------------|-----|-----|-----|-----|---------|-----|---------|---------|-----|-------|-------|--------|-------|-------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 1/2 | ≥ 2 | ≥ 1 1/2 | ≥ 1 1/4 | ≥ 1 | ≥ 3/4 | ≥ 1/2 | ≥ 5/16 | ≥ 1/4 | ≥ 1/8 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| ≥ 20000         |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 18000           |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 16000           |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 14000           |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 12000           |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 10000           |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 9000            |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 8000            |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 7000            |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 6000            |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 5000            |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 4500            |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 4000            |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 3500            |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 3000            |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 2500            |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 2000            |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 1800            |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 1500            |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 1200            |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 1000            |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 900             |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 800             |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 700             |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 600             |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 500             |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 400             |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 300             |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 200             |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 100             |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |
| 0               |                            |     |     |     |     |         |     |         |         |     |       |       |        |       |       |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION MONTH YEARS HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     | ≥ 0 |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF STATIONS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |     |
| 18000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |     |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |     |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |     |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

NO. OF STATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 18000           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

STATION NAME

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS L S T

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

STATION NAME

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

NO. OBS.

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |      |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO. CEILING     |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 18000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 16000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 14000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 12000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 10000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 9000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 8000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 7000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 6000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 5000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 4500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 4000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 3500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 3000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 2500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 2000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 1800          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 1500          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 1200          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 1000          |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 900           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 800           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 700           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 600           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 500           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 400           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 300           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 200           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 100           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

TEARS

STATION NAME

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

NO. OF

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |         |         |         |         |         |         |        |        |        |        |        |        |        |
|-----------------|----------------------------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
|                 | NO CEILING                 | ≥ 20000 | ≥ 18000 | ≥ 16000 | ≥ 14000 | ≥ 12000 | ≥ 10000 | ≥ 9000 | ≥ 8000 | ≥ 7000 | ≥ 6000 | ≥ 5000 | ≥ 4500 | ≥ 4000 |
| NO CEILING      |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 20000         |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 18000         |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 16000         |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 14000         |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 12000         |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 10000         |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 9000          |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 8000          |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 7000          |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 6000          |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 5000          |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 4500          |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 4000          |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 3500          |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 3000          |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 2500          |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 2000          |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 1800          |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 1500          |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 1200          |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 1000          |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 900           |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 800           |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 700           |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 600           |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 500           |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 400           |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 300           |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 200           |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| ≥ 100           |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |
| 0               |                            |         |         |         |         |         |         |        |        |        |        |        |        |        |

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

STATION NAME

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

VISIBILITY STATUTE MILES

CEILING FEET

NO. OF HRS

AT 20000

19000

18000

17000

16000

15000

14000

13000

12000

11000

10000

9000

8000

7000

6000

5000

4500

4000

3500

3000

2500

2000

1500

1000

500

200

100

0

AL

AL

AL

AL

AL

AL

AL

AL

AL

AL

AL

AL

TOTAL NUMBER OF REPORTS

# CEILING VERSUS VISIBILITY

STATION NAME

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

VISIBILITY - STATUTE MILES

CEILING - FEET

210 216 225 234 243 252 261 270 279 288 297 306 315 324 333 342 351 360 369 378 387 396 405 414 423 432 441 450 459 468 477 486 495 504 513 522 531 540 549 558 567 576 585 594 603 612 621 630 639 648 657 666 675 684 693 702 711 720 729 738 747 756 765 774 783 792 801 810 819 828 837 846 855 864 873 882 891 900 909 918 927 936 945 954 963 972 981 990

NO. OF OBS.

20000  
15000  
10000  
7500  
5000  
2500  
1000  
500  
250  
100  
50  
25  
10  
5  
2  
1  
0

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME  
MONTH  
YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING - FEET

VISIBILITY - STATUTE MILES

NO. CEILING

20000  
18000  
16000  
14000  
12000  
10000  
9000  
8000  
7000  
6000  
5000  
4500  
4000  
3500  
3000  
2500  
2000  
1800  
1500  
1200  
1000  
900  
800  
700  
600  
500  
400  
300  
200  
100  
0

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

— 100 —

11. 8. 2

2  
 4  
 6  
 8  
 10  
 12

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

VISIBILITY STATUTE MILES

10

2  
3  
4  
5

A  
A  
 A  
S A  
A  
A  
 A  
A  
A  
A  
A  
A  
A  
A  
A  
A

|   |    |     |
|---|----|-----|
| A | 20 | 30  |
| A | 18 | 60  |
| A | 15 | 90  |
| A | 14 | 120 |
| A | 12 | 150 |
| A | 10 | 180 |
| A | 8  | 210 |
| A | 6  | 240 |
| A | 4  | 270 |
| A | 3  | 300 |
| A | 2  | 330 |
| A | 1  | 360 |

TOTAL NUMBER OF C.B.F.D. AT 145

# CEILING VERSUS VISIBILITY

STATION NAME

THURS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

PERCENT

VISIBILITY - STATUTE MILES

PERCENT

≥ 10    ≥ 9    ≥ 8    ≥ 7    ≥ 6    ≥ 5    ≥ 4    ≥ 3    ≥ 2.5    ≥ 2    ≥ 1.5    ≥ 1.4    ≥ 1.1    ≥ 1    ≥ .5    ≥ .4    ≥ .3    ≥ .2    ≥ .1

NO. OF OBS.

20000

18000

16000

14000

12000

10000

9000

8000

7000

6000

5000

4500

4000

3500

3000

2500

2000

1800

1500

1200

1000

900

800

700

600

500

400

300

200

100

0

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

STATION NAME

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|-----|------|-------|-------|------|-------|--------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .5 | ≥ .25 | ≥ .15 | ≥ .1 | ≥ .05 | ≥ .025 | ≥ .015 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| ≥ 20000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 18000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 16000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 14000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 12000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 10000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 9000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 8000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 7000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 6000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 5000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 4500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 4000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 3500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 3000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 2500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 2000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 1800            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 1500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 1200            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 1000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 900             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 800             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 700             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 600             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 500             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 400             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 300             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 200             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 100             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |
| 0               |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |        |     |

TOTAL NUMBER OF OBSERVATIONS

SYNOPSIS

STATION NAME

## SUMMARY

MONYH

157

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

TOTAL NUMBER OF OBSERVATIONS

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26



# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_

YEARS \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH \_\_\_\_\_

HOURS LIST \_\_\_\_\_

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# CEILING VERSUS VISIBILITY

NAME OF STATION OR FACILITY: \_\_\_\_\_

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_  
 PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

HOURLY: \_\_\_\_\_

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-------|-----|------|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/8 | ≥ 0 | AI 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| ≥ 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 18000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 16000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 14000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 12000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 10000             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 9000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 8000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 7000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 6000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 5000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 4500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 4000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 3500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 3000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 2500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 2000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 1800              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 1500              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 1200              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 1000              |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 900               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 800               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 700               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 600               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 500               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 400               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 300               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 200               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 100               |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| 0                 |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |
| AI AI             |                            |     |     |     |     |      |     |      |      |     |     |     |     |       |     |      |

TOTAL NUMBER OF OBSERVATIONS

DATE: \_\_\_\_\_

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH

HOURS LST

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 | ≥ 0 |
| NO CEILING        |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| > 20000           |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 18000             |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 16000             |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 14000             |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 12000             |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 10000             |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 9000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 8000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 7000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 6000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 5000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 4500              |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 4000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 3500              |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 3000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 2500              |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 2000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 1800              |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 1500              |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 1200              |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 1000              |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 900               |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 800               |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 700               |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 600               |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 500               |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 400               |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 300               |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 200               |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 100               |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |
| 0                 |                            |     |     |     |     |      |     |      |     |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

MONTH

HOURS

YEARS

STATION NAME

STATION

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 20000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 18000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |      |     |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |      |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

UPTAVOCEANJET 5205

# CEILING VERSUS VISIBILITY

STATION NAME  
STATION  
YEARS  
MONTH  
HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| ≥ 20000         |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 18000           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 16000           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 14000           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 12000           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 10000           |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 9000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 8000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 7000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 6000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 5000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 4500            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 4000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 3500            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 3000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 2500            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 2000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 1800            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 1500            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 1200            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 1000            |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 900             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 800             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 700             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 600             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 500             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 400             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 300             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 200             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 100             |                            |     |     |     |     |      |     |      |     |     |     |     |     |
| 0               |                            |     |     |     |     |      |     |      |     |     |     |     |     |

TOTAL NUMBER OF OBSERVATIONS

## CEILING VERSUS VISIBILITY

MCAT

1. **Introduction**

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STATION NAME

SYA • IOM

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
|-----------------|----------------------------|-----|-----|-----|-----|---------|-----|---------|-----|-------|-------|--------|-------|-------|--------|--------|--------|
|                 | > 10                       | > 6 | > 5 | > 4 | > 3 | > 2 1/2 | > 2 | > 1 1/2 | > 1 | > 3/4 | > 1/2 | > 5/16 | > 1/4 | > 1/8 | > 1/16 | > 1/32 | > 1/64 |
| NO CEILING      |                            |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 20000           | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 18000           | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 16000           | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 14000           | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 12000           | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 10000           | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 9000            | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 8000            | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 7000            | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 6000            | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 5000            | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 4500            | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 4000            | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 3500            | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 3000            | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 2500            | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 2000            | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 1800            | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 1600            | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 1400            | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 1200            | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 1000            | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 900             | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 800             | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 700             | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 600             | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 500             | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 400             | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 300             | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 200             | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 100             | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |
| 0               | AL                         |     |     |     |     |         |     |         |     |       |       |        |       |       |        |        |        |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|-------|-----|-------|-----|------|-------|-------|------|-------|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2.5 | ≥ 2 | ≥ 1.5 | ≥ 1 | ≥ .5 | ≥ .25 | ≥ .15 | ≥ .1 | ≥ .05 | ≥ .025 | ≥ 0 |
| NO CEILING      |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| ≥ 20000         |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 18000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 16000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 14000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 12000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 10000           |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 9000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 8000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 7000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 6000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 5000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 4500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 4000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 3500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 3000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 2500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 2000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 1500            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 1000            |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 500             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 400             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 300             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 200             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 100             |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |
| 0               |                            |     |     |     |     |       |     |       |     |      |       |       |      |       |        |     |

TOTAL NUMBER OF OBSERVATIONS



# SKY COVER

PERCENTAGE PROBABILITY OF CLOUDS  
FROM NORTH OBSERVATION

| PERCENTAGE PROBABILITY OF CLOUDS FROM NORTH OBSERVATION |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 0   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 33  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 36  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 38  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 43  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 46  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 48  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 49  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 51  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 53  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 56  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 58  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 59  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 60  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 63  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 64  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 68  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 73  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 76  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 78  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 79  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 81  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 83  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 84  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 86  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 88  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 91  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 92  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 93  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 94  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 96  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 97  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 98  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 99  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

# SKY COVER

DATE: 10/10/54 TIME: 1400Z

THE DATA REPRESENTS PERCENTAGE OF TOTAL SKY COVER

100%  
80%  
60%  
40%  
20%  
0%

100

80

60

40

20

0

AD-A150 377

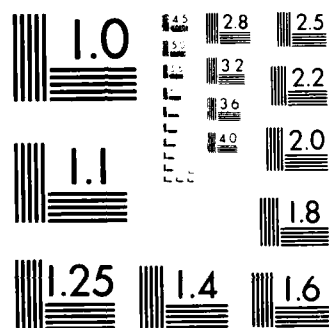
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)

4/4

UNCLASSIFIED

F/G 4/2

NL



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

# SKY COVER

STATION:

STATION NAME

PERIOD

MONTY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

**MONTH**

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |     |   |   |   |   |   |     | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |     |     |
|--------|-------------------|---|---|---|-----|---|---|---|---|---|-----|--------------------------------|-------------------------|-----|-----|
|        |                   | 0   | 1 | 2 | 3   | 4 | 5 | 6 | 7 | 8 | 9   |                                |                         | 10  |     |
| JAN.   | 1                 | •   |   |   | ••• |   |   |   |   |   | ••• |                                | ••                      | ••• | 10  |
|        | 2                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 3                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 4                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
| FEB.   | 1                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 2                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 3                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 4                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
| MAR.   | 1                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 2                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 3                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 4                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
| APR.   | 1                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 2                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 3                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 4                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
| MAY.   | 1                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 2                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 3                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 4                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
| JUN.   | 1                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 2                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 3                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 4                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
| JUL.   | 1                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 2                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 3                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 4                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
| AUG.   | 1                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 2                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 3                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 4                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
| SEPT.  | 1                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 2                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 3                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 4                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
| OCT.   | 1                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 2                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 3                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 4                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
| NOV.   | 1                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 2                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 3                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
|        | 4                 | ••  |   |   | ••  |   |   |   |   |   | ••• |                                | •••                     | 10  |     |
| TOTALS |                   | ••  |   |   | ••  |   |   |   |   |   | ••  |                                | ••                      | ••  | 100 |

| STATION | STATION NAME | PERIOD | MONTH |
|---------|--------------|--------|-------|
| 1       |              |        |       |
| 2       |              |        |       |
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| 97      |              |        |       |
| 98      |              |        |       |
| 99      |              |        |       |
| 100     |              |        |       |

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |   |   |   |   |   |   |   | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |    |
|--------|-------------------|---|---|---|---|---|---|---|---|---|---|--------------------------------|-------------------------|----|
|        |                   | 0   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                                |                         | 10 |
| JAN.   | 0000-0500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 0500-1000         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 1000-1500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
| FEB.   | 0000-0500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 0500-1000         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 1000-1500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
| MARCH  | 0000-0500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 0500-1000         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 1000-1500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
| APRIL  | 0000-0500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 0500-1000         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 1000-1500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
| MAY    | 0000-0500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 0500-1000         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 1000-1500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
| JUNE   | 0000-0500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 0500-1000         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 1000-1500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
| JULY   | 0000-0500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 0500-1000         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 1000-1500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
| AUG.   | 0000-0500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 0500-1000         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 1000-1500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
| SEPT.  | 0000-0500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 0500-1000         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 1000-1500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
| OCT.   | 0000-0500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 0500-1000         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 1000-1500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
| NOV.   | 0000-0500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 0500-1000         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 1000-1500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
| DEC.   | 0000-0500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 0500-1000         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
|        | 1000-1500         | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |
| TOTALS |                   | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       | 1  |

# SKY COVER

| STATION | STATION NAME | PERIOD | MONTH |
|---------|--------------|--------|-------|
| 1       | STATION 1    | 1      | 1     |
| 2       | STATION 2    | 2      | 2     |
| 3       | STATION 3    | 3      | 3     |
| 4       | STATION 4    | 4      | 4     |
| 5       | STATION 5    | 5      | 5     |
| 6       | STATION 6    | 6      | 6     |
| 7       | STATION 7    | 7      | 7     |
| 8       | STATION 8    | 8      | 8     |
| 9       | STATION 9    | 9      | 9     |
| 10      | STATION 10   | 10     | 10    |
| 11      | STATION 11   | 11     | 11    |
| 12      | STATION 12   | 12     | 12    |
| 13      | STATION 13   | 13     | 13    |
| 14      | STATION 14   | 14     | 14    |
| 15      | STATION 15   | 15     | 15    |
| 16      | STATION 16   | 16     | 16    |
| 17      | STATION 17   | 17     | 17    |
| 18      | STATION 18   | 18     | 18    |
| 19      | STATION 19   | 19     | 19    |
| 20      | STATION 20   | 20     | 20    |
| 21      | STATION 21   | 21     | 21    |
| 22      | STATION 22   | 22     | 22    |
| 23      | STATION 23   | 23     | 23    |
| 24      | STATION 24   | 24     | 24    |
| 25      | STATION 25   | 25     | 25    |
| 26      | STATION 26   | 26     | 26    |
| 27      | STATION 27   | 27     | 27    |
| 28      | STATION 28   | 28     | 28    |
| 29      | STATION 29   | 29     | 29    |
| 30      | STATION 30   | 30     | 30    |
| 31      | STATION 31   | 31     | 31    |
| 32      | STATION 32   | 32     | 32    |
| 33      | STATION 33   | 33     | 33    |
| 34      | STATION 34   | 34     | 34    |
| 35      | STATION 35   | 35     | 35    |
| 36      | STATION 36   | 36     | 36    |
| 37      | STATION 37   | 37     | 37    |
| 38      | STATION 38   | 38     | 38    |
| 39      | STATION 39   | 39     | 39    |
| 40      | STATION 40   | 40     | 40    |
| 41      | STATION 41   | 41     | 41    |
| 42      | STATION 42   | 42     | 42    |
| 43      | STATION 43   | 43     | 43    |
| 44      | STATION 44   | 44     | 44    |
| 45      | STATION 45   | 45     | 45    |
| 46      | STATION 46   | 46     | 46    |
| 47      | STATION 47   | 47     | 47    |
| 48      | STATION 48   | 48     | 48    |
| 49      | STATION 49   | 49     | 49    |
| 50      | STATION 50   | 50     | 50    |
| 51      | STATION 51   | 51     | 51    |
| 52      | STATION 52   | 52     | 52    |
| 53      | STATION 53   | 53     | 53    |
| 54      | STATION 54   | 54     | 54    |
| 55      | STATION 55   | 55     | 55    |
| 56      | STATION 56   | 56     | 56    |
| 57      | STATION 57   | 57     | 57    |
| 58      | STATION 58   | 58     | 58    |
| 59      | STATION 59   | 59     | 59    |
| 60      | STATION 60   | 60     | 60    |
| 61      | STATION 61   | 61     | 61    |
| 62      | STATION 62   | 62     | 62    |
| 63      | STATION 63   | 63     | 63    |
| 64      | STATION 64   | 64     | 64    |
| 65      | STATION 65   | 65     | 65    |
| 66      | STATION 66   | 66     | 66    |
| 67      | STATION 67   | 67     | 67    |
| 68      | STATION 68   | 68     | 68    |
| 69      | STATION 69   | 69     | 69    |
| 70      | STATION 70   | 70     | 70    |
| 71      | STATION 71   | 71     | 71    |
| 72      | STATION 72   | 72     | 72    |
| 73      | STATION 73   | 73     | 73    |
| 74      | STATION 74   | 74     | 74    |
| 75      | STATION 75   | 75     | 75    |
| 76      | STATION 76   | 76     | 76    |
| 77      | STATION 77   | 77     | 77    |
| 78      | STATION 78   | 78     | 78    |
| 79      | STATION 79   | 79     | 79    |
| 80      | STATION 80   | 80     | 80    |
| 81      | STATION 81   | 81     | 81    |
| 82      | STATION 82   | 82     | 82    |
| 83      | STATION 83   | 83     | 83    |
| 84      | STATION 84   | 84     | 84    |
| 85      | STATION 85   | 85     | 85    |
| 86      | STATION 86   | 86     | 86    |
| 87      | STATION 87   | 87     | 87    |
| 88      | STATION 88   | 88     | 88    |
| 89      | STATION 89   | 89     | 89    |
| 90      | STATION 90   | 90     | 90    |
| 91      | STATION 91   | 91     | 91    |
| 92      | STATION 92   | 92     | 92    |
| 93      | STATION 93   | 93     | 93    |
| 94      | STATION 94   | 94     | 94    |
| 95      | STATION 95   | 95     | 95    |
| 96      | STATION 96   | 96     | 96    |
| 97      | STATION 97   | 97     | 97    |
|         |              |        |       |

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |     |   |   |   |   |   |     | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|---|---|---|-----|---|---|---|---|---|-----|--------------------------------|-------------------------|
|        |                   | 0   | 1 | 2 | 3   | 4 | 5 | 6 | 7 | 8 | 9   |                                |                         |
| JAN.   | 0000-0500         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
|        | 0500-1000         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
| FEB.   | 0000-0500         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
|        | 0500-1000         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
| MAR.   | 0000-0500         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
|        | 0500-1000         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
| APR.   | 0000-0500         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
|        | 0500-1000         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
| MAY    | 0000-0500         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
|        | 0500-1000         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
| JUN.   | 0000-0500         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
|        | 0500-1000         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
| JUL.   | 0000-0500         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
|        | 0500-1000         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
| AUG.   | 0000-0500         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
|        | 0500-1000         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
| SEPT.  | 0000-0500         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
|        | 0500-1000         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
| OCT.   | 0000-0500         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
|        | 0500-1000         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
| NOV.   | 0000-0500         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
|        | 0500-1000         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
| DEC.   | 0000-0500         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
|        | 0500-1000         | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |
| TOTALS |                   | 1.0   |   |   | 1.0 |   |   |   |   |   | 1.0 |                                | 1.0                     |



MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |      |   |   |   |   |   |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|---|---|---|------|---|---|---|---|---|------|--------------------------------|-------------------------|
|        |                   | 0   | 1 | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9    |                                |                         |
| JAN.   | 10.0              |   |   |   | 10.0 |   |   |   |   |   | 17.1 | 10.0                           | 1.0                     |
|        | 11.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
|        | 12.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
|        | 13.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
| FEB.   | 10.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
|        | 11.0              |   |   |   | 10.0 |   |   |   |   |   | 17.1 | 10.0                           | 1.0                     |
|        | 12.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
|        | 13.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
| MARCH  | 10.0              |   |   |   | 10.0 |   |   |   |   |   |      | 10.0                           | 1.0                     |
|        | 11.0              |   |   |   | 10.0 |   |   |   |   |   | 17.1 | 10.0                           | 1.0                     |
|        | 12.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
|        | 13.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
| APRIL  | 10.0              |   |   |   | 10.0 |   |   |   |   |   |      | 10.0                           | 1.0                     |
|        | 11.0              |   |   |   | 10.0 |   |   |   |   |   | 17.1 | 10.0                           | 1.0                     |
|        | 12.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
|        | 13.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
| MAY    | 10.0              |   |   |   | 10.0 |   |   |   |   |   |      | 10.0                           | 1.0                     |
|        | 11.0              |   |   |   | 10.0 |   |   |   |   |   | 17.1 | 10.0                           | 1.0                     |
|        | 12.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
|        | 13.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
| JUNE   | 10.0              |   |   |   | 10.0 |   |   |   |   |   |      | 10.0                           | 1.0                     |
|        | 11.0              |   |   |   | 10.0 |   |   |   |   |   | 17.1 | 10.0                           | 1.0                     |
|        | 12.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
|        | 13.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
| JULY   | 10.0              |   |   |   | 10.0 |   |   |   |   |   |      | 10.0                           | 1.0                     |
|        | 11.0              |   |   |   | 10.0 |   |   |   |   |   | 17.1 | 10.0                           | 1.0                     |
|        | 12.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
|        | 13.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
| AUG.   | 10.0              |   |   |   | 10.0 |   |   |   |   |   |      | 10.0                           | 1.0                     |
|        | 11.0              |   |   |   | 10.0 |   |   |   |   |   | 17.1 | 10.0                           | 1.0                     |
|        | 12.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
|        | 13.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
| SEPT.  | 10.0              |   |   |   | 10.0 |   |   |   |   |   |      | 10.0                           | 1.0                     |
|        | 11.0              |   |   |   | 10.0 |   |   |   |   |   | 17.1 | 10.0                           | 1.0                     |
|        | 12.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
|        | 13.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
| OCT.   | 10.0              |   |   |   | 10.0 |   |   |   |   |   |      | 10.0                           | 1.0                     |
|        | 11.0              |   |   |   | 10.0 |   |   |   |   |   | 17.1 | 10.0                           | 1.0                     |
|        | 12.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
|        | 13.0              |   |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |
| TOTALS |                   | 10.0  |   |   | 10.0 |   |   |   |   |   | 10.0 | 10.0                           | 1.0                     |

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |   |   |   |   |   |   |   | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|---|---|---|---|---|---|---|---|---|---|--------------------------------|-------------------------|
|        |                   | 0   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                                |                         |
| JAN.   | 0000              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0100              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0200              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0300              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0400              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| FEB.   | 0000              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0100              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0200              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0300              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0400              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| MARCH  | 0000              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0100              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0200              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0300              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0400              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| APRIL  | 0000              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0100              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0200              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0300              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0400              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| MAY    | 0000              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0100              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0200              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0300              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0400              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| JUNE   | 0000              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0100              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0200              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0300              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0400              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| JULY   | 0000              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0100              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0200              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0300              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0400              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| AUG.   | 0000              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0100              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0200              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0300              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0400              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| SEPT.  | 0000              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0100              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0200              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0300              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|        | 0400              | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| TOTALS |                   | 1   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                              | 1                       |

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH     | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |   |   |   |   |   |   |   | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|-----------|----------------|---|---|---|---|---|---|---|---|---|---|--------------------------------|-------------------------|
|           |                | 0   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                                |                         |
| JAN       | 0000           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 0600           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1200           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1800           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| FEB       | 0000           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 0600           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1200           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1800           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| MARCH     | 0000           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 0600           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1200           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1800           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| APRIL     | 0000           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 0600           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1200           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1800           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| MAY       | 0000           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 0600           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1200           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1800           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| JUNE      | 0000           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 0600           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1200           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1800           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| JULY      | 0000           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 0600           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1200           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1800           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| AUGUST    | 0000           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 0600           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1200           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1800           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| SEPTEMBER | 0000           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 0600           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1200           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1800           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| OCTOBER   | 0000           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 0600           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1200           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1800           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| NOVEMBER  | 0000           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 0600           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1200           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1800           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| DECEMBER  | 0000           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 0600           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1200           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
|           | 1800           | 1   |   |   | 1 |   |   |   |   |   | 1 | 1                              | 1                       |
| TOTALS    |                | 1   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                              | 1                       |

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | PERIOD | MONTH |
|---------|--------------|--------|-------|
| 1       | 1            | 1      | 1     |
| 2       | 2            | 2      | 2     |
| 3       | 3            | 3      | 3     |
| 4       | 4            | 4      | 4     |
| 5       | 5            | 5      | 5     |
| 6       | 6            | 6      | 6     |
| 7       | 7            | 7      | 7     |
| 8       | 8            | 8      | 8     |
| 9       | 9            | 9      | 9     |
| 10      | 10           | 10     | 10    |
| 11      | 11           | 11     | 11    |
| 12      | 12           | 12     | 12    |
| 13      | 13           | 13     | 13    |
| 14      | 14           | 14     | 14    |
| 15      | 15           | 15     | 15    |
| 16      | 16           | 16     | 16    |
| 17      | 17           | 17     | 17    |
| 18      | 18           | 18     | 18    |
| 19      | 19           | 19     | 19    |
| 20      | 20           | 20     | 20    |
| 21      | 21           | 21     | 21    |
| 22      | 22           | 22     | 22    |
| 23      | 23           | 23     | 23    |
| 24      | 24           | 24     | 24    |
| 25      | 25           | 25     | 25    |
| 26      | 26           | 26     | 26    |
| 27      | 27           | 27     | 27    |
| 28      | 28           | 28     | 28    |
| 29      | 29           | 29     | 29    |
| 30      | 30           | 30     | 30    |
| 31      | 31           | 31     | 31    |
| 32      | 32           | 32     | 32    |
| 33      | 33           | 33     | 33    |
| 34      | 34           | 34     | 34    |
| 35      | 35           | 35     | 35    |
| 36      | 36           | 36     | 36    |
| 37      | 37           | 37     | 37    |
| 38      | 38           | 38     | 38    |
| 39      | 39           | 39     | 39    |
| 40      | 40           | 40     | 40    |
| 41      | 41           | 41     | 41    |
| 42      | 42           | 42     | 42    |
| 43      | 43           | 43     | 43    |
| 44      | 44           | 44     | 44    |
| 45      | 45           | 45     | 45    |
| 46      | 46           | 46     | 46    |
| 47      | 47           | 47     | 47    |
| 48      | 48           | 48     | 48    |
| 49      | 49           | 49     | 49    |
| 50      | 50           | 50     | 50    |
| 51      | 51           | 51     | 51    |
| 52      | 52           | 52     | 52    |
| 53      | 53           | 53     | 53    |
| 54      | 54           | 54     | 54    |
| 55      | 55           | 55     | 55    |
| 56      | 56           | 56     | 56    |
| 57      | 57           | 57     | 57    |
| 58      | 58           | 58     | 58    |
| 59      | 59           | 59     | 59    |
| 60      | 60           | 60     | 60    |
| 61      | 61           | 61     | 61    |
| 62      | 62           | 62     | 62    |
| 63      | 63           | 63     | 63    |
| 64      | 64           | 64     | 64    |
| 65      | 65           | 65     | 65    |
| 66      | 66           | 66     | 66    |
| 67      | 67           | 67     | 67    |
| 68      | 68           | 68     | 68    |
| 69      | 69           | 69     | 69    |
| 70      | 70           | 70     | 70    |
| 71      | 71           | 71     | 71    |
| 72      | 72           | 72     | 72    |
| 73      | 73           | 73     | 73    |
| 74      | 74           | 74     | 74    |
| 75      | 75           | 75     | 75    |
| 76      | 76           | 76     | 76    |
| 77      | 77           | 77     | 77    |
| 78      | 78           | 78     | 78    |
| 79      | 79           | 79     | 79    |
| 80      | 80           | 80     | 80    |
| 81      | 81           | 81     | 81    |
| 82      | 82           | 82     | 82    |
| 83      | 83           | 83     | 83    |
| 84      | 84           | 84     | 84    |
| 85      | 85           | 85     | 85    |
| 86      | 86           | 86     | 86    |
| 87      | 87           | 87     | 87    |
| 88      | 88           | 88     | 88    |
| 89      | 89           | 89     | 89    |
| 90      | 90           | 90     | 90    |
| 91      | 91           | 91     | 91    |
| 92      | 92           | 92     | 92    |
| 93      | 93           | 93     | 93    |
| 94      | 94           | 94     | 94    |
| 95      | 95           | 95     | 95    |
| 96      | 96           | 96     | 96    |
| 97      | 97           | 97     | 97    |
| 98      | 98           | 98     | 98    |
| 99      | 99           | 99     | 99    |
| 100     | 100          | 100    | 100   |

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |   |   |   |   |   |   |   | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|---|---|---|---|---|---|---|---|---|---|--------------------------------|-------------------------|
|        |                   | 0   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                                |                         |
| JAN    | 0000              | •   |   |   | • |   |   |   |   |   | • | •                              |                         |
|        | 0100              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0200              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0300              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
| FEB    | 0000              | •   |   |   | • |   |   |   |   |   | • | •                              |                         |
|        | 0100              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0200              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0300              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
| MAR    | 0000              | •   |   |   | • |   |   |   |   |   | • | •                              |                         |
|        | 0100              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0200              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0300              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
| APR    | 0000              | •   |   |   | • |   |   |   |   |   | • | •                              |                         |
|        | 0100              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0200              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0300              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
| MAY    | 0000              | •   |   |   | • |   |   |   |   |   | • | •                              |                         |
|        | 0100              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0200              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0300              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
| JUN    | 0000              | •   |   |   | • |   |   |   |   |   | • | •                              |                         |
|        | 0100              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0200              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0300              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
| JUL    | 0000              | •   |   |   | • |   |   |   |   |   | • | •                              |                         |
|        | 0100              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0200              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0300              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
| AUG    | 0000              | •   |   |   | • |   |   |   |   |   | • | •                              |                         |
|        | 0100              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0200              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0300              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
| SEP    | 0000              | •   |   |   | • |   |   |   |   |   | • | •                              |                         |
|        | 0100              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0200              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0300              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
| OCT    | 0000              | •   |   |   | • |   |   |   |   |   | • | •                              |                         |
|        | 0100              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0200              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0300              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
| NOV    | 0000              | •   |   |   | • |   |   |   |   |   | • | •                              |                         |
|        | 0100              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0200              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
|        | 0300              | •   |   |   | • |   |   |   |   | • | • | •                              |                         |
| TOTALS |                   | •   |   |   | • |   |   |   |   |   | • | •                              |                         |

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

| MONTH | COMED |
|-------|-------|
| 1     | 1     |
| 2     | 2     |
| 3     | 3     |
| 4     | 4     |
| 5     | 5     |
| 6     | 6     |
| 7     | 7     |
| 8     | 8     |
| 9     | 9     |
| 10    | 10    |
| 11    | 11    |
| 12    | 12    |

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

## PART E

## PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The form and manner of presentation follows:

1. Nominate percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 2-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:

- a. Daily maximum temperature
- b. Daily minimum temperature
- c. Daily mean temperature

2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for monthly and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:

- a. Extreme maximum temperature
- b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.

3. Temperature frequency distribution and computation of dry-bulb versus wet-bulb temperature.  
The tabulation is derived from 2-hourly observations and is presented in monthly and annual, all four, and three separate tables. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 1° classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total number of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in the lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of 1.0 represents one or more occurrences amounting to less than .05 percent.



c. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma x$ ). The number of observations used in the computations for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

- a. Dry-bulb temperature
- b. Wet-bulb temperature
- c. Dew-point temperature

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.

b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

Vertical distribution of occurrence of in-air temperature, wet-bulb, and dew-point - This tabulation is prepared from hourly observations and is presented by month and annual, all years combined, and presents the mean, standard deviation, and total number of observations of dry-air temperature, wet-bulb temperature, and dew-point temperature by vertical distribution (in 1% classes).



# DAILY TEMPERATURES

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_  
 CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM DAILY OBSERVATIONS)

| TEMP °F   | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 91        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 90        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 89        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 88        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 87        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 86        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 85        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 84        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 83        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 82        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 81        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 80        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 79        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 78        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 77        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 76        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 75        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 74        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 73        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 72        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 71        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 70        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 69        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 68        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 67        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 66        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 65        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 64        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 63        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 62        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 61        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 60        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 59        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 58        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 57        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 56        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 55        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 54        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 53        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 52        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 51        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 50        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 49        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 48        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 47        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 46        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 45        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 44        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 43        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 42        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 41        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 40        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 39        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 38        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 37        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 36        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 35        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 34        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 33        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 32        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 31        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 30        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 29        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 28        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 27        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 26        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 25        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 24        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 23        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 22        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 21        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 20        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 19        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 18        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 17        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 16        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 15        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 14        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 13        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 12        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 11        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 10        |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 9         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 8         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 7         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 6         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 5         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 4         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 3         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 2         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 1         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| 0         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| MEAN      |     |     |     |     |     |     |     |     |     |     |     |     |        |
| S D       |     |     |     |     |     |     |     |     |     |     |     |     |        |
| TOTAL OBS |     |     |     |     |     |     |     |     |     |     |     |     |        |





NAVY WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION NAME

YEARS

MONTH

| MEAN TEMP |     |     | AVERAGE |     |  | MAXIMUM TEMP |      |  | AVERAGE |      |  | MINIMUM TEMP |       |      |
|-----------|-----|-----|---------|-----|--|--------------|------|--|---------|------|--|--------------|-------|------|
| DAY       | F   | C   | F       | C   |  | F            | C    |  | F       | C    |  | F            | C     | DATE |
| 1         | 7.0 | 4.4 | 47.0    | 4.4 |  | 5            | 15.0 |  | 31.1    | -1.1 |  | 1            | -1.1  | 1967 |
| 2         | 6.4 | 3.9 | 47.1    | 3.9 |  | 6            | 16.4 |  | 31.7    | -0.7 |  | 2            | -0.7  | 1967 |
| 3         | 7.0 | 4.4 | 47.6    | 4.4 |  | 7            | 16.7 |  | 32.4    | -0.4 |  | 3            | -0.4  | 1967 |
| 4         | 7.7 | 4.9 | 48.3    | 4.9 |  | 7            | 17.7 |  | 31.2    | -0.9 |  | 4            | -11.1 | 1967 |
| 5         | 6.1 | 3.9 | 47.4    | 3.9 |  | 7            | 16.1 |  | 31.1    | -0.5 |  | 5            | -1.1  | 1967 |
| 6         | 5.1 | 3.1 | 47.3    | 3.1 |  | 9            | 16.1 |  | 32.2    | 0.1  |  | 6            | -0.7  | 1967 |
| 7         | 4.4 | 3.1 | 47.5    | 3.1 |  | 6            | 16.5 |  | 32.2    | 0.1  |  | 7            | -0.4  | 1967 |
| 8         | 4.4 | 3.9 | 48.3    | 3.9 |  | 6            | 16.5 |  | 32.2    | -1.1 |  | 8            | -0.9  | 1967 |
| 9         | 4.7 | 4.4 | 48.4    | 4.4 |  | 8            | 16.7 |  | 32.2    | -0.4 |  | 9            | -1.1  | 1967 |
| 10        | 4.4 | 4.4 | 48.8    | 4.4 |  | 7            | 16.7 |  | 31.8    | -0.4 |  | 10           | -0.4  | 1967 |
| 11        | 4.4 | 4.4 | 48.7    | 4.4 |  | 7            | 16.7 |  | 31.8    | -0.4 |  | 11           | -11.1 | 1967 |
| 12        | 4.4 | 4.4 | 48.8    | 4.4 |  | 7            | 16.7 |  | 32.1    | -1.1 |  | 12           | -0.4  | 1967 |
| 13        | 4.4 | 4.4 | 48.8    | 4.4 |  | 8            | 16.7 |  | 32.1    | -0.7 |  | 13           | -11.1 | 1967 |
| 14        | 4.4 | 4.4 | 48.8    | 4.4 |  | 8            | 16.7 |  | 31.8    | -0.4 |  | 14           | -0.4  | 1967 |
| 15        | 4.4 | 4.4 | 48.8    | 4.4 |  | 7            | 16.7 |  | 34.0    | 1.1  |  | 15           | -0.4  | 1967 |
| 16        | 4.4 | 4.4 | 48.8    | 4.4 |  | 7            | 16.7 |  | 34.0    | 1.1  |  | 16           | -0.4  | 1967 |
| 17        | 4.4 | 4.4 | 48.8    | 4.4 |  | 7            | 16.7 |  | 34.0    | 1.1  |  | 17           | -11.1 | 1967 |
| 18        | 4.4 | 4.4 | 48.8    | 4.4 |  | 7            | 16.7 |  | 33.2    | 0.7  |  | 18           | -11.1 | 1967 |
| 19        | 4.4 | 4.4 | 48.8    | 4.4 |  | 7            | 16.7 |  | 34.0    | 1.1  |  | 19           | -0.4  | 1967 |
| 20        | 4.4 | 4.4 | 48.8    | 4.4 |  | 6            | 16.7 |  | 33.4    | 0.5  |  | 20           | -0.4  | 1967 |
| 21        | 4.4 | 4.4 | 48.8    | 4.4 |  | 7            | 16.7 |  | 33.4    | 0.5  |  | 21           | -0.4  | 1967 |
| 22        | 4.4 | 4.4 | 48.8    | 4.4 |  | 7            | 16.7 |  | 34.0    | 1.1  |  | 22           | -0.4  | 1967 |
| 23        | 4.4 | 4.4 | 48.8    | 4.4 |  | 7            | 16.7 |  | 34.0    | 1.1  |  | 23           | -1.1  | 1967 |
| 24        | 4.4 | 4.4 | 48.8    | 4.4 |  | 7            | 16.7 |  | 34.0    | 1.1  |  | 24           | -4.4  | 1967 |
| 25        | 4.4 | 4.4 | 48.8    | 4.4 |  | 7            | 16.7 |  | 34.0    | 1.1  |  | 25           | -11.1 | 1967 |
| 26        | 4.4 | 4.4 | 48.8    | 4.4 |  | 7            | 16.7 |  | 34.0    | 1.1  |  | 26           | -0.4  | 1967 |
| 27        | 4.4 | 4.4 | 48.8    | 4.4 |  | 7            | 16.7 |  | 34.0    | 1.1  |  | 27           | -0.4  | 1967 |
| 28        | 4.4 | 4.4 | 48.8    | 4.4 |  | 7            | 16.7 |  | 34.0    | 1.1  |  | 28           | -0.4  | 1967 |
| 29        | 4.4 | 4.4 | 48.8    | 4.4 |  | 7            | 16.7 |  | 34.0    | 1.1  |  | 29           | -0.4  | 1967 |
| 30        |     |     |         |     |  |              |      |  |         |      |  | 30           |       |      |
| 31        |     |     |         |     |  |              |      |  |         |      |  | 31           |       |      |
| Monthly   |     |     |         |     |  |              |      |  | 32.2    | 0.7  |  |              |       | 1967 |

\* ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

[illegible]

• ALSO ON EARLIER YEARS

# DIRNAVOCEANMET-SMOS

| STATION | MAXIMUM TEMP |      |       |      | AVERAGE |      |       |      | MINIMUM TEMP |      |       |      |
|---------|--------------|------|-------|------|---------|------|-------|------|--------------|------|-------|------|
|         | C            | F    | C     | F    | C       | F    | C     | F    | C            | F    | C     | F    |
| 1       | 18.0         | 64.4 | 17.0  | 62.6 | 16.0    | 60.8 | 15.0  | 59.0 | 14.0         | 57.2 | 13.0  | 55.4 |
| 2       | 17.0         | 62.6 | 16.0  | 60.8 | 15.0    | 59.0 | 14.0  | 57.2 | 13.0         | 55.4 | 12.0  | 53.6 |
| 3       | 16.0         | 60.8 | 15.0  | 59.0 | 14.0    | 57.2 | 13.0  | 55.4 | 12.0         | 53.6 | 11.0  | 51.8 |
| 4       | 15.0         | 59.0 | 14.0  | 57.2 | 13.0    | 55.4 | 12.0  | 53.6 | 11.0         | 51.8 | 10.0  | 50.0 |
| 5       | 14.0         | 57.2 | 13.0  | 55.4 | 12.0    | 53.6 | 11.0  | 51.8 | 10.0         | 50.0 | 9.0   | 48.2 |
| 6       | 13.0         | 55.4 | 12.0  | 53.6 | 11.0    | 51.8 | 10.0  | 50.0 | 9.0          | 48.2 | 8.0   | 46.4 |
| 7       | 12.0         | 53.6 | 11.0  | 51.8 | 10.0    | 50.0 | 9.0   | 48.2 | 8.0          | 46.4 | 7.0   | 44.6 |
| 8       | 11.0         | 51.8 | 10.0  | 50.0 | 9.0     | 48.2 | 8.0   | 46.4 | 7.0          | 44.6 | 6.0   | 42.8 |
| 9       | 10.0         | 50.0 | 9.0   | 48.2 | 8.0     | 46.4 | 7.0   | 44.6 | 6.0          | 42.8 | 5.0   | 41.0 |
| 10      | 9.0          | 48.2 | 8.0   | 46.4 | 7.0     | 44.6 | 6.0   | 42.8 | 5.0          | 41.0 | 4.0   | 39.2 |
| 11      | 8.0          | 46.4 | 7.0   | 44.6 | 6.0     | 42.8 | 5.0   | 41.0 | 4.0          | 39.2 | 3.0   | 37.4 |
| 12      | 7.0          | 44.6 | 6.0   | 42.8 | 5.0     | 41.0 | 4.0   | 39.2 | 3.0          | 37.4 | 2.0   | 35.6 |
| 13      | 6.0          | 42.8 | 5.0   | 41.0 | 4.0     | 39.2 | 3.0   | 37.4 | 2.0          | 35.6 | 1.0   | 33.8 |
| 14      | 5.0          | 41.0 | 4.0   | 39.2 | 3.0     | 37.4 | 2.0   | 35.6 | 1.0          | 33.8 | 0.0   | 32.0 |
| 15      | 4.0          | 39.2 | 3.0   | 37.4 | 2.0     | 35.6 | 1.0   | 33.8 | 0.0          | 32.0 | -1.0  | 30.2 |
| 16      | 3.0          | 37.4 | 2.0   | 35.6 | 1.0     | 33.8 | 0.0   | 32.0 | -1.0         | 30.2 | -2.0  | 28.4 |
| 17      | 2.0          | 35.6 | 1.0   | 33.8 | 0.0     | 32.0 | -1.0  | 30.2 | -2.0         | 28.4 | -3.0  | 26.6 |
| 18      | 1.0          | 33.8 | 0.0   | 32.0 | -1.0    | 30.2 | -2.0  | 28.4 | -3.0         | 26.6 | -4.0  | 24.8 |
| 19      | 0.0          | 32.0 | -1.0  | 30.2 | -2.0    | 28.4 | -3.0  | 26.6 | -4.0         | 24.8 | -5.0  | 23.0 |
| 20      | -1.0         | 30.2 | -2.0  | 28.4 | -3.0    | 26.6 | -4.0  | 24.8 | -5.0         | 23.0 | -6.0  | 21.2 |
| 21      | -2.0         | 28.4 | -3.0  | 26.6 | -4.0    | 24.8 | -5.0  | 23.0 | -6.0         | 21.2 | -7.0  | 19.4 |
| 22      | -3.0         | 26.6 | -4.0  | 24.8 | -5.0    | 23.0 | -6.0  | 21.2 | -7.0         | 19.4 | -8.0  | 17.6 |
| 23      | -4.0         | 24.8 | -5.0  | 23.0 | -6.0    | 21.2 | -7.0  | 19.4 | -8.0         | 17.6 | -9.0  | 15.8 |
| 24      | -5.0         | 23.0 | -6.0  | 21.2 | -7.0    | 19.4 | -8.0  | 17.6 | -9.0         | 15.8 | -10.0 | 14.0 |
| 25      | -6.0         | 21.2 | -7.0  | 19.4 | -8.0    | 17.6 | -9.0  | 15.8 | -10.0        | 14.0 | -11.0 | 12.2 |
| 26      | -7.0         | 19.4 | -8.0  | 17.6 | -9.0    | 15.8 | -10.0 | 14.0 | -11.0        | 12.2 | -12.0 | 10.4 |
| 27      | -8.0         | 17.6 | -9.0  | 15.8 | -10.0   | 14.0 | -11.0 | 12.2 | -12.0        | 10.4 | -13.0 | 8.6  |
| 28      | -9.0         | 15.8 | -10.0 | 14.0 | -11.0   | 12.2 | -12.0 | 10.4 | -13.0        | 8.6  | -14.0 | 6.8  |
| 29      | -10.0        | 14.0 | -11.0 | 12.2 | -12.0   | 10.4 | -13.0 | 8.6  | -14.0        | 6.8  | -15.0 | 5.0  |
| 30      | -11.0        | 12.2 | -12.0 | 10.4 | -13.0   | 8.6  | -14.0 | 6.8  | -15.0        | 5.0  | -16.0 | 3.2  |
| 31      | -12.0        | 10.4 | -13.0 | 8.6  | -14.0   | 6.8  | -15.0 | 5.0  | -16.0        | 3.2  | -17.0 | 1.4  |
| Mean    | 17.0         | 62.6 | 16.0  | 60.8 | 15.0    | 59.0 | 14.0  | 57.2 | 13.0         | 55.4 | 12.0  | 53.6 |

• ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



[illegible]

• ALSO ON EARLIER YEARS

| STATION | WIND SPEED |      |     | MAXIMUM TEMP |      |     | AVERAGE |      |     | MINIMUM TEMP |      |     |
|---------|------------|------|-----|--------------|------|-----|---------|------|-----|--------------|------|-----|
|         | F          | C    | MPH | F            | C    | MPH | F       | C    | MPH | F            | C    | MPH |
| 1       | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 2       | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 3       | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 4       | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 5       | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 6       | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 7       | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 8       | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 9       | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 10      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 11      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 12      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 13      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 14      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 15      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 16      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 17      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 18      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 19      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 20      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 21      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 22      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 23      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 24      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 25      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 26      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 27      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 28      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 29      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 30      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |
| 31      | 70.0       | 21.1 | 10  | 70.0         | 21.1 | 10  | 70.0    | 21.1 | 10  | 70.0         | 21.1 | 10  |

•ALSO ON EARLIER YEARS

| STATION NAME |      | MAXIMUM TEMP |      |      |         |      |      | MINIMUM TEMP |      |      |         |      |      |
|--------------|------|--------------|------|------|---------|------|------|--------------|------|------|---------|------|------|
| AVERAGE      |      | EXTREME      |      |      | AVERAGE |      |      | EXTREME      |      |      | AVERAGE |      |      |
|              |      | F            | C    | DATE | F       | C    | DATE | F            | C    | DATE | F       | C    | DATE |
| 1            | 6.5  | 43.7         | 5.6  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 2            | 7.0  | 44.6         | 6.1  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 3            | 7.2  | 44.8         | 6.3  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 4            | 7.4  | 45.1         | 6.5  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 5            | 7.6  | 45.3         | 6.7  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 6            | 7.8  | 45.6         | 6.9  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 7            | 8.0  | 45.9         | 7.1  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 8            | 8.2  | 46.2         | 7.3  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 9            | 8.4  | 46.5         | 7.5  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 10           | 8.6  | 46.8         | 7.7  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 11           | 8.8  | 47.1         | 7.9  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 12           | 9.0  | 47.4         | 8.1  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 13           | 9.2  | 47.7         | 8.3  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 14           | 9.4  | 48.0         | 8.5  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 15           | 9.6  | 48.3         | 8.7  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 16           | 9.8  | 48.6         | 8.9  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 17           | 10.0 | 48.9         | 9.1  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 18           | 10.2 | 49.2         | 9.3  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 19           | 10.4 | 49.5         | 9.5  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 20           | 10.6 | 49.8         | 9.7  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 21           | 10.8 | 50.1         | 9.9  | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 22           | 11.0 | 50.4         | 10.1 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 23           | 11.2 | 50.7         | 10.3 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 24           | 11.4 | 51.0         | 10.5 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 25           | 11.6 | 51.3         | 10.7 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 26           | 11.8 | 51.6         | 10.9 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 27           | 12.0 | 51.9         | 11.1 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 28           | 12.2 | 52.2         | 11.3 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 29           | 12.4 | 52.5         | 11.5 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 30           | 12.6 | 52.8         | 11.7 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 31           | 12.8 | 53.1         | 11.9 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 32           | 13.0 | 53.4         | 12.1 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 33           | 13.2 | 53.7         | 12.3 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 34           | 13.4 | 54.0         | 12.5 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 35           | 13.6 | 54.3         | 12.7 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 36           | 13.8 | 54.6         | 12.9 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 37           | 14.0 | 54.9         | 13.1 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 38           | 14.2 | 55.2         | 13.3 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 39           | 14.4 | 55.5         | 13.5 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 40           | 14.6 | 55.8         | 13.7 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 41           | 14.8 | 56.1         | 13.9 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 42           | 15.0 | 56.4         | 14.1 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 43           | 15.2 | 56.7         | 14.3 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 44           | 15.4 | 57.0         | 14.5 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |
| 45           | 15.6 | 57.3         | 14.7 | 1977 | 1.0     | 33.8 | 1977 | 1.0          | 33.8 | 1977 | 1.0     | 33.8 | 1977 |

• ALSO ON EARLIER YEARS

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION NAME

STATION NUMBER

4

STATION NAME

STATION NUMBER

| DATE    | AVERAGE |     | MAXIMUM TEMP<br>EXTREME |      | AVERAGE |      | MINIMUM TEMP<br>EXTREME |      | DATE |
|---------|---------|-----|-------------------------|------|---------|------|-------------------------|------|------|
|         | F       | C   | F                       | C    | F       | C    | F                       | C    |      |
| 1       | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 2       | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 3       | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 4       | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 5       | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 6       | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 7       | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 8       | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 9       | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 10      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 11      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 12      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 13      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 14      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 15      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 16      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 17      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 18      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 19      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 20      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 21      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 22      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 23      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 24      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 25      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 26      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 27      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 28      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 29      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 30      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| 31      | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |
| Monthly | 4.7     | 4.7 | 10.0                    | 10.0 | 10.0    | 10.0 | 10.0                    | 10.0 | 10.0 |

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

[illegible]

# ANNUAL PUBLICATIONS

# DAILY AVERAGE/EXTREME TEMPERATURES

4

• ALSO AVAILABLE:

DIRNA VOCEANMET-SMOS

# DAILY AVERAGE/EXTREME TEMPERATURES

4

| DATE | TEMPERATURE |     | WIND |     | HUMIDITY |     | PRESSURE |     | VISIBILITY |    | CLOUDS |    | REMARKS |  |
|------|-------------|-----|------|-----|----------|-----|----------|-----|------------|----|--------|----|---------|--|
|      | MAX         | MIN | DIR  | SPD | REL      | ABS | SEA      | ALT | SM         | NS | CL     | HT |         |  |
| 1/1  |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/2  |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/3  |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/4  |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/5  |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/6  |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/7  |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/8  |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/9  |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/10 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/11 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/12 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/13 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/14 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/15 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/16 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/17 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/18 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/19 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/20 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/21 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/22 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/23 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/24 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/25 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/26 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/27 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/28 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/29 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/30 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |
| 1/31 |             |     |      |     |          |     |          |     |            |    |        |    |         |  |

## DAILY AVERAGE EXTREME TEMPERATURES

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*[The page contains faint, illegible markings and artifacts from scanning.]*

ALSO ON EARLIER YEARS

**DIRNAVOCEANMET-SMOS**



## EXTREME VALUES

STATION NAME

[illegible]

# SOLOS

## EXTREME VALUES

— 185 —

[illegible]

SOIUS

## EXTREME VALUES

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## EXTREME VALUES

YFARS

SMOS

## EXTREME VALUES

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SMOS

## EXTREME VALUES

YEARS

[illegible]

SMOS

## EXTREME VALUES

YEARS

| MONTH<br>YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ALL<br>MONTHS |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
|               |     |     |     |     |     |     |     |     |     |     |     |     |               |
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SOILS

## EXTREME VALUES

STATION NAME

## VARIABLES

[illegible]

SMOS



## EXTREME VALUES

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[illegible]

SOLIS

## EXTREME VALUES

• 2000

SOLNS



## PSYCHROMETRIC SUMMARY

[illegible]

NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

2000

STATUS IN NAME

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[illegible]

WOMENASERVCOM





## NAVWEASERVCOM

[illegible]





















# PSYCHROMETRIC SUMMARY

STATION

STATION NAME

CLERK

DATE

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WET BULB TEMPERATURE DEPRESSION F

TOTAL

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Exposure

No. Obs

Mean No. of Hours with Temperature

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Exposure

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## PSYCHROMETRIC SUMMARY

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# MEANS AND STANDARD DEVIATIONS

|                    | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MEAN               | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| STANDARD DEVIATION | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| TOTALS             | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| MEAN               | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| STANDARD DEVIATION | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| TOTALS             | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| MEAN               | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| STANDARD DEVIATION | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| TOTALS             | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| MEAN               | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| STANDARD DEVIATION | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| TOTALS             | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |

# MEANS AND STANDARD DEVIATIONS

STATE OR NAME

CLASS

|              | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| MEAN         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| S D          |     |     |     |     |     |     |     |     |     |     |     |     |        |
| TOTALS       |     |     |     |     |     |     |     |     |     |     |     |     |        |
| MEAN         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| S D          |     |     |     |     |     |     |     |     |     |     |     |     |        |
| TOTALS       |     |     |     |     |     |     |     |     |     |     |     |     |        |
| MEAN         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| S D          |     |     |     |     |     |     |     |     |     |     |     |     |        |
| TOTALS       |     |     |     |     |     |     |     |     |     |     |     |     |        |
| MEAN         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| S D          |     |     |     |     |     |     |     |     |     |     |     |     |        |
| TOTALS       |     |     |     |     |     |     |     |     |     |     |     |     |        |
| MEAN         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| S D          |     |     |     |     |     |     |     |     |     |     |     |     |        |
| TOTALS       |     |     |     |     |     |     |     |     |     |     |     |     |        |
| MEAN         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| S D          |     |     |     |     |     |     |     |     |     |     |     |     |        |
| TOTALS       |     |     |     |     |     |     |     |     |     |     |     |     |        |
| MEAN         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| S D          |     |     |     |     |     |     |     |     |     |     |     |     |        |
| TOTALS       |     |     |     |     |     |     |     |     |     |     |     |     |        |
| ALL<br>HOURS |     |     |     |     |     |     |     |     |     |     |     |     |        |
| MEAN         |     |     |     |     |     |     |     |     |     |     |     |     |        |
| S D          |     |     |     |     |     |     |     |     |     |     |     |     |        |
| TOTALS       |     |     |     |     |     |     |     |     |     |     |     |     |        |

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# RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

| RELATIVE HUMIDITY | 100 | 90 | 80 | 70 | 60 | 50 | 40 | 30 | 20 | 10 | 0 | TOTAL<br>NO. OF<br>OBS. |
|-------------------|-----|----|----|----|----|----|----|----|----|----|---|-------------------------|
| 100               | •   |    |    |    |    |    |    |    |    |    |   | 1                       |
| 90                | •   | •  |    |    |    |    |    |    |    |    |   | 2                       |
| 80                | •   | •  | •  |    |    |    |    |    |    |    |   | 3                       |
| 70                | •   | •  | •  | •  |    |    |    |    |    |    |   | 4                       |
| 60                | •   | •  | •  | •  | •  |    |    |    |    |    |   | 5                       |
| 50                | •   | •  | •  | •  | •  | •  |    |    |    |    |   | 6                       |
| 40                | •   | •  | •  | •  | •  | •  | •  |    |    |    |   | 7                       |
| 30                | •   | •  | •  | •  | •  | •  | •  | •  |    |    |   | 8                       |
| 20                | •   | •  | •  | •  | •  | •  | •  | •  | •  |    |   | 9                       |
| 10                | •   | •  | •  | •  | •  | •  | •  | •  | •  | •  |   | 10                      |
| 0                 | •   | •  | •  | •  | •  | •  | •  | •  | •  | •  | • | 11                      |

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CONTRIBUTION OF THE PHYSICAL MECHANISM OF COEXISTENCE  
OF TWO POLYMER OBSERVATIONS

RELATIVE HUMIDITY



# RELATIVE HUMIDITY

COMPARISON OF MONTHLY RELATIVE HUMIDITY DATA FROM  
FROM MONTHLY OBSERVATIONS

| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | TOTAL<br>RELATIVE<br>HUMIDITY | TOTAL<br>HOURS |
|-------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------------------|----------------|
| JAN   | • | • | • | • | • | • | • | • | • | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •                             | •              |
| FEB   | • | • | • | • | • | • | • | • | • | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •                             | •              |
| MAR   | • | • | • | • | • | • | • | • | • | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •                             | •              |
| APR   | • | • | • | • | • | • | • | • | • | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •                             | •              |
| MAY   | • | • | • | • | • | • | • | • | • | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •                             | •              |
| JUN   | • | • | • | • | • | • | • | • | • | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •                             | •              |
| JUL   | • | • | • | • | • | • | • | • | • | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •                             | •              |
| AUG   | • | • | • | • | • | • | • | • | • | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •                             | •              |
| SEP   | • | • | • | • | • | • | • | • | • | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •                             | •              |
| OCT   | • | • | • | • | • | • | • | • | • | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •                             | •              |
| NOV   | • | • | • | • | • | • | • | • | • | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •                             | •              |
| DEC   | • | • | • | • | • | • | • | • | • | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •  | •                             | •              |



# RELATIVE HUMIDITY

COMPARISON OF MEAN RELATIVE HUMIDITY OF COURSE  
FROM TOWER OBSERVATIONS

| TIME | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------------------------------|------------------------|
| 1    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 2    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 3    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 4    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 5    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 6    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 7    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 8    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 9    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 10   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 11   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 12   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 13   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 14   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 15   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 16   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 17   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 18   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 19   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 20   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 21   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 22   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 23   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |
| 24   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1                            | 1                      |

# RELATIVE HUMIDITY

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in YEA medium for 24 h at 28°C. The cell concentration was adjusted to 10<sup>8</sup> cells/ml. The cell suspension was mixed with the plant tissue and incubated for 24 h at 28°C. The plant tissue was then cultured on the selective medium. The transformation efficiency was determined as the number of transformants per 100 mg of plant tissue. The data are the mean ± SD of three independent experiments.

[illegible]

## RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

[illegible]

# RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM DURING OBSERVATIONS

| WINDS<br>1-10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | WINDS<br>11-15 |
|---------------|---|----|----|----|----|----|----|----|----|----|-----|----------------|
| 1             | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 2             | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 3             | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 4             | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 5             | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 6             | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 7             | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 8             | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 9             | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 10            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 11            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 12            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 13            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 14            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 15            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 16            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 17            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 18            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 19            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 20            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 21            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 22            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 23            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 24            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 25            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 26            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 27            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 28            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 29            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 30            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 31            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 32            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 33            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 34            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 35            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 36            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 37            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 38            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 39            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 40            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 41            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 42            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 43            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 44            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 45            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 46            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 47            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 48            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 49            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 50            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 51            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 52            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 53            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 54            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 55            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 56            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 57            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 58            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 59            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 60            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 61            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 62            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 63            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 64            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 65            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 66            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 67            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 68            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 69            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 70            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 71            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 72            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 73            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 74            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 75            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 76            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 77            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 78            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 79            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 80            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 81            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 82            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 83            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 84            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 85            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 86            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 87            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 88            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 89            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 90            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 91            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 92            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 93            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 94            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 95            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 96            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 97            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 98            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 99            | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |
| 100           | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1   | 1              |

# RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>OBS. | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |     |     |     |     |     |     |     |     |     | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|--------|---------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------------------|-------------------------|
|        |               | 100  | 90  | 80  | 70  | 60  | 50  | 40  | 30  | 20  | 10  |                              |                         |
| JAN    | 1             | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 1                       |
| FEB    | 1             | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 1                       |
| MAR    | 1             | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 1                       |
| APR    | 1             | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 1                       |
| MAY    | 1             | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 1                       |
| JUN    | 1             | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 1                       |
| JUL    | 1             | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 1                       |
| AUG    | 1             | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 1                       |
| SEP    | 1             | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 1                       |
| OCT    | 1             | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 1                       |
| NOV    | 1             | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 1                       |
| DEC    | 1             | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 1                       |
| TOTALS | 1             | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 1                       |

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

[illegible]



# RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

| RELATIVE HUMIDITY | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|-------------------|----|----|----|----|----|----|----|----|------------------------------|-------------------------|
| 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 1                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 2                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 3                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 4                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 5                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 6                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 7                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 8                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 9                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 10                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 11                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 12                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 13                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 14                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 15                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 16                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 17                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 18                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 19                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 20                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 21                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 22                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 23                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 24                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 25                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 26                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 27                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 28                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 29                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 30                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 31                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 32                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 33                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 34                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 35                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 36                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 37                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 38                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 39                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 40                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 41                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 42                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 43                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 44                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 45                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 46                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 47                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 48                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 49                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 50                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 51                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 52                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 53                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 54                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 55                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 56                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 57                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 58                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 59                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |
| 60                | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                            | 0                       |

4 AIR TEMPERATURE

SECTION

SECTION

RELATION OF AIR TEMPERATURE

VS.

WIND DIRECTION

CONTINUED

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**Figure 6**

2



4

TEMPERATURE

TEMPERATURE

TEMPERATURE



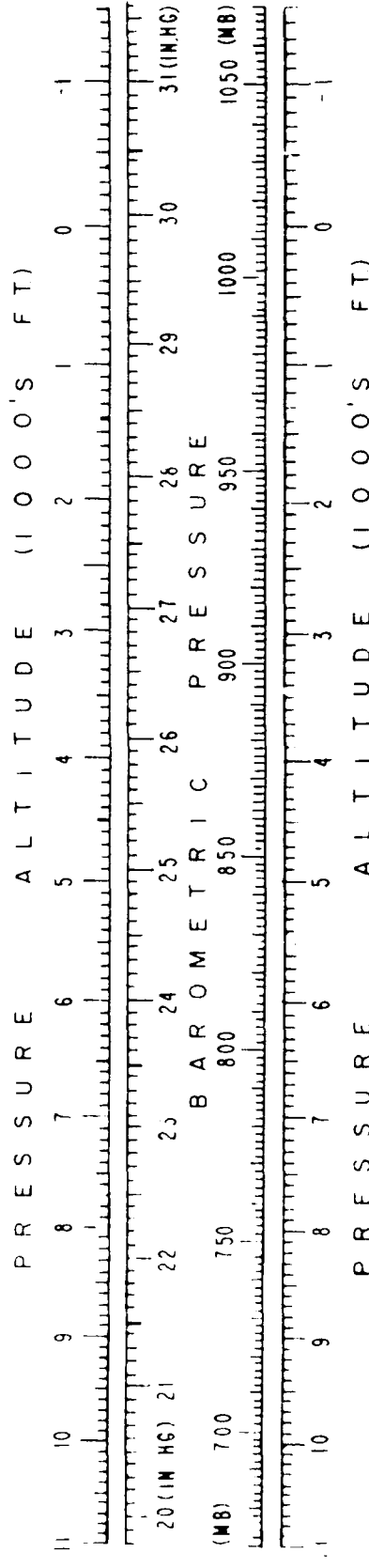
## PART F

## PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



P R E S S U R E

A L T I T U D E ( 1 0 0 0 ' S F T )

## MEANS AND STANDARD DEVIATIONS

| NO. | NAME   | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1   | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 2   | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 3   | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 4   | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 5   | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 6   | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 7   | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 8   | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 9   | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 10  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 11  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 12  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 13  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 14  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 15  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 16  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 17  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 18  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 19  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 20  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 21  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 22  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 23  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 24  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 25  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 26  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 27  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 28  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 29  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 30  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 31  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 32  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 33  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 34  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 35  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 36  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 37  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 38  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 39  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 40  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 41  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 42  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 43  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 44  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 45  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 46  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 47  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 48  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 49  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 50  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 51  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 52  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 53  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 54  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 55  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 56  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 57  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 58  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 59  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 60  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 61  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 62  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 63  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 64  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 65  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 66  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 67  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 68  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 69  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 70  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 71  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 72  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 73  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 74  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 75  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 76  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 77  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 78  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 79  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 80  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 81  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 82  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 83  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 84  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 85  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 86  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 87  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 88  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 89  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 90  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 91  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 92  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 93  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 94  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 95  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 96  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 97  | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 98  | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 99  | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 100 | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 101 | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 102 | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 103 | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 104 | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 105 | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 106 | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 107 | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 108 | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 109 | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 110 | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 111 | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 112 | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 113 | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 114 | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 115 | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 116 | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 117 | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 118 | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 119 | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 120 | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 121 | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 122 | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 123 | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 124 | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 125 | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 126 | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 127 | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 128 | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 129 | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 130 | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 131 | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 132 | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 133 | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 134 | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 135 | TOTALS | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2      |
| 136 | WREN   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1      |
| 137 | SP     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |     |     |        |



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